

STATISTICS OF HAWAIIAN AGRICULTURE 1982

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EXECUTIVE CHAMBERS
HONOLULU

GEORGE R. ARIYOSHI
GOVERNOR



MESSAGE FROM GOVERNOR GEORGE R. ARIYOSHI

Agriculture is an important factor in our economy; the essential thread in the fabric of our island life. It not only provides jobs and food, but also the open space and rural setting that attracts visitors to our shores and enhances the quality of life of our citizens.

Because of the importance agriculture plays in our society, this administration has placed a strong emphasis on its diversification and expansion.

Now, and in the future, we continue to work towards more self-sufficiency in producing food and in developing a wider variety of export crops.


George R. Ariyoshi

GEORGE R. ARIYOSHI
GOVERNOR



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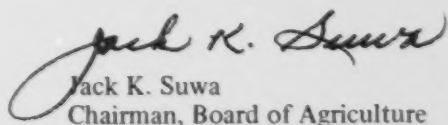
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The year 1982 was a trying one for agriculture in Hawaii. However, in spite of problems in the dairy industry and other agricultural sectors the value of agriculture, including processed sugar and pineapple, was still the second highest on record.

Hurricane Iwa, a weak national economy and other adverse factors conspired to cause a downturn in the value of diversified agriculture. I believe this is a temporary setback. With proper government and private sector encouragement the strong growth pattern of recent years should resume.

Statistics of Hawaiian Agriculture is our annual summary publication which is part of an extensive schedule of current reports issued by the Hawaii Agricultural Reporting Service. This statistical program is a joint effort of the Hawaii Department of Agriculture and the Statistical Reporting Service, U. S. Department of Agriculture. Through this cooperative arrangement we are able to provide a comprehensive program of quality statistics without duplication of resources.


Jack K. Suwa
Chairman, Board of Agriculture



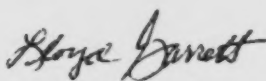
"Support Hawaiian Agricultural Products"

STATISTICS OF HAWAIIAN AGRICULTURE

Most of the information in this publication is obtained by surveys of farmers and ranchers. Supplemental information is provided by grower organizations and agribusiness firms. Several other State and Federal agencies also contribute toward development of these statistics. We wish to express our appreciation to all the persons and organizations who have helped.

Much of the information was obtained by personal interviews. Statisticians responsible for this work were: James Yamaki and Llewelyn Suzuki, Hawaii; Renan Mahikoa, Maui and Molokai; and Wendell Au and June Okamura, Oahu and Kauai. Processing the data and preparing the tables were done by the program support group of Georgia Kato, Betsy Komatsu, Natalie Nagaji, Verma Peterson, Amy Quinlan, and Joyce Satogata under the supervision of Joan Nakamatsu. Jan Yokogawa had responsibilities for computer processing and programming. Joyce Jay served as editor with commodity supervision provided by Sadao Sato for crop estimates; Nils Morita for livestock estimates; and Ronald Nakamura for special projects. Printing services and forms preparation were done by Rowena Tanaka. Donald Martin is responsible for directing technical program operations of the office. Carol Igawa provided administrative assistance.

An extensive schedule of current reports and forecasts are available upon request to the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, Hawaii 96822.



Lloyd P. Garrett
Statistician in Charge

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HAWAII AGRICULTURE 1982

Adverse weather, a problem-plagued dairy industry and lower prices for many commodities highlighted the 1982 Hawaii agricultural scene. Attracting less attention but certainly important were record receipts from the flower and nursery and macadamia nut industries, and stronger sugar prices. Despite the adversity, Hawaii's farmers still managed to ring up farm sales amounting to \$512.6 million, a 5 percent increase from the previous year. Helping to boost the value were improved sugar prices and a continuing increase in fresh market pineapple sales raising the equivalent farm value to a record high.

The contribution of agriculture to Hawaii's economy, including the processed value of sugar and pineapple, was \$740.5 million, slightly greater than the previous year. The farm value of diversified agriculture, although making a substantial contribution, declined 5 percent from 1981 to a total of \$182.4 million, still the second highest of record. Mainly responsible for the decrease were a sharp 28 percent drop in milk receipts, lower cattle prices, a small coffee harvest and lower papaya production. On the positive side, record high values were noted for macadamia nuts, flowers and nursery products, and vegetable and melon crops.

SUMMARY: Acreage in crop and total farm acreage, by islands, 1978-82

Year	Sugarcane	Pineapples ¹	Vegetables and melons ²	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Miscellaneous crops ³	Total farm acreage ⁴
1,000 acres								
STATE ⁵								
1978..	220.7	43.0	4.0	5.2	2.3	10.2	6.0	1,980
1979..	218.8	44.0	4.3	5.3	2.1	11.4	4.9	1,980
1980..	217.7	43.0	3.9	5.2	1.9	⁶ 13.3	6.4	1,970
1981..	216.1	41.0	4.2	5.4	1.8	13.8	8.0	1,965
1982..	204.8	36.0	4.1	5.6	2.0	14.7	11.3	1,965
HAWAII								
1978..	92.6		1.2	3.4	2.3	10.1	2.7	1,150
1979..	91.7		1.6	3.6	2.1	11.1	1.1	1,150
1980..	91.2		1.5	3.6	1.9	⁶ 12.1	1.0	1,150
1981..	90.5		1.5	3.7	1.8	12.6	1.1	1,150
1982..	83.2		1.5	3.9	2.0	13.5	1.0	1,150
KAUAI/NIIHAU								
1978..	46.1		.1	.5		⁷	.5	280
1979..	45.8		.1	.6		⁷	.7	280
1980..	46.0	*	.1	.7		⁷	.6	275
1981..	45.8	*	.1	.8		⁷	.6	275
1982..	44.9	*	.1	.7		⁷	.7	275
MAUI/MOLOKAI/LANAI								
1978..	48.0	31.0	1.3	.6		⁷	1.8	425
1979..	47.7	32.0	1.2	.3		⁷	1.8	425
1980..	47.4	31.5	1.2	.1		⁷	3.4	420
1981..	47.1	30.0	1.4	.1		⁷	4.9	420
1982..	47.5	24.5	1.4	.2		⁷	8.9	420
OAHU								
1978..	34.0	12.0	1.4	.7		⁷	1.0	125
1979..	33.6	12.0	1.4	.8		⁷	1.3	125
1980..	33.1	11.5	1.1	.8		⁷	1.4	125
1981..	32.7	11.0	1.2	.8		⁷	1.4	125
1982..	29.2	11.5	1.1	.8		⁷	.7	125

* = Less than 500 acres.

¹ Land used for pineapple.

² Harvested acreage.

³ Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.

⁴ Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.

⁵ Sum of island estimates may not add to State total due to rounding.

⁶ Revised.

⁷ Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of crop farms, by islands, 1978-82

Year	Sugar	Pineapples	Vegetables and melons	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
STATE								
1978..	480	16	542	641	750	464	132	600
1979..	400	15	535	683	700	465	121	580
1980..	380	18	585	692	650	475	122	640
1981..	360	18	583	657	625	490	123	680
1982..	285	18	620	700	620	520	117	650
HAWAII								
1978..	469		187	393	750	459	47	300
1979..	389		198	407	700	459	41	290
1980..	369		213	410	650	469	41	300
1981..	349		216	392	625	485	40	330
1982..	274		241	424	620	515	35	310
KAUAI								
1978..	5		51	63		3	52	25
1979..	5		47	74		3	49	25
1980..	5	3	51	78		3	50	25
1981..	5	3	48	77		2	50	25
1982..	5	3	52	82		2	49	25
MAUI/MOLOKAI/LANAI								
1978..	3	14	72	33		1	31	95
1979..	3	13	73	44		2	29	95
1980..	3	13	75	38		2	29	95
1981..	3	13	75	33		2	30	85
1982..	3	13	78	37		2	29	80
OAHU								
1978..	3	2	232	152		1	2	180
1979..	3	2	217	158		1	2	170
1980..	3	2	246	166		1	2	220
1981..	3	2	244	155		1	3	240
1982..	3	2	249	157		1	4	235

SUMMARY: Number of livestock operations and total number of farms, by islands, 1978-82 ¹

Year	Cattle ²	Hogs	Milk	Eggs	Broilers	Honey	Total (non-duplicated) ³
STATE							
1978..	800	650	70	60	10	25	4,300
1979..	800	650	70	60	10	25	4,300
1980..	800	650	70	60	10	27	4,300
1981..	750	650	70	55	10	28	4,400
1982..	750	650	70	55	10	28	4,400
HAWAII							
1978..	355	85	24	23		3	2,500
1979..	355	80	24	23		3	2,500
1980..	360	80	24	23		3	2,500
1981..	350	70	24	23		3	2,650
1982..	340	75	24	24		3	2,650
KAUAI/NIIHAU							
1978..	155	100	5	5	2	12	300
1979..	155	110	5	6	2	12	300
1980..	150	110	5	6	2	14	300
1981..	140	115	5	4	2	12	250
1982..	140	115	5	4	2	12	250
MAUI/MOLOKAI/LANAI							
1978..	205	110	17	6		5	500
1979..	205	100	17	5		5	500
1980..	210	110	17	5		5	500
1981..	190	110	17	5		5	500
1982..	200	100	17	6		5	500
OAHU							
1978..	85	355	24	26	8	5	1,000
1979..	85	360	24	26	8	5	1,000
1980..	80	350	24	26	8	5	1,000
1981..	70	355	24	23	8	8	1,000
1982..	70	360	24	21	8	8	1,000

¹ End of year.

² Includes beef, dairy, and dairy replacement operations.

³ Based on new farm definition of \$1,000 or more of agricultural sales.

SUMMARY: Volume of crop marketings, by islands, 1978-82

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)	Macadamia nuts (in shell)	Taro
	----- 1,000 tons -----		----- 1,000 pounds -----				
	STATE ¹						
1978..	9,263	675	72,010	79,120	1,680	20,980	7,680
1979..	9,632	681	70,250	56,600	2,190	26,660	6,640
1980..	9,214	657	70,710	67,800	1,440	33,390	6,400
1981..	8,831	636	73,330	83,010	2,210	33,360	6,100
1982..	8,808	670	72,740	70,810	1,050	36,720	6,460
	HAWAII						
1978..	3,936		27,270	50,000	1,680	20,890	1,550
1979..	4,036		27,910	37,400	2,190	26,570	1,220
1980..	3,718		31,290	51,570	1,440	33,270	700
1981..	3,507		32,040	64,650	2,210	33,240	450
1982..	3,780		34,510	55,010	1,050	36,600	880
	KAUAI/NIIHAU						
1978..	1,915		2,330	6,130		2	4,920
1979..	1,992		2,090	6,910		2	4,330
1980..	1,873	*	1,460	8,080		2	4,550
1981..	1,949	*	1,590	10,860		2	4,450
1982..	1,869	*	1,620	8,160		2	4,360
	MAUI/MOLOKAI/LANAI						
1978..	1,985	488	26,360	15,000		2	2
1979..	2,110	491	24,220	5,410		2	2
1980..	2,278	479	23,980	2,200		2	2
1981..	2,038	466	25,640	1,480		2	2
1982..	1,853	467	25,230	2,260		2	2
	OAHU						
1978..	1,427	187	16,050	7,990		2	2
1979..	1,494	190	16,030	6,880		2	2
1980..	1,345	178	13,980	5,950		2	2
1981..	1,337	170	14,060	6,020		2	2
1982..	1,306	203	11,380	5,380		2	2

* = Less than 500 tons.

¹ Sum of island estimates may not add to State total due to rounding of State estimates to 1,000 hundredweight of some crops included in United States totals.

² Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Volume of livestock marketings, by islands, 1978-82

Year	Beef (dressed weight) ¹	Pork (dressed weight)	Milk	Eggs	Broilers and chickens (ready- to-cook weight)	Honey
	----- 1,000 pounds -----		Million pounds	Million	----- 1,000 pounds -----	
STATE ²						
1978..	33,544	9,869	147.3	217.9	6,786	812
1979..	29,325	7,785	147.3	229.3	7,136	910
1980..	28,809	8,012	149.4	220.5	7,890	861
1981..	28,666	8,708	147.9	221.3	9,046	875
1982..	29,048	8,557	106.4	202.2	8,571	840
HAWAII						
1978..	21,979	1,190	3	3	3	3
1979..	17,317	834	3	3	3	3
1980..	18,201	929	3	3	3	3
1981..	18,179	947	3	3	3	3
1982..	19,880	716	3	3	3	3
KAUAI						
1978..	3,170	492	3	3	3	3
1979..	2,515	378	3	3	3	3
1980..	3,165	648	3	3	3	3
1981..	2,342	704	3	3	3	3
1982..	1,992	636	3	3	3	3
MAUI/MOLOKAI						
1978..	6,657	1,879	3	3	3	3
1979..	7,600	1,658	3	3	3	3
1980..	5,838	1,852	3	3	3	3
1981..	6,321	2,090	3	3	3	3
1982..	6,224	2,016	3	3	3	3
OAHU						
1978..	1,738	6,308	119.6	186.8	6,450	3
1979..	1,893	4,915	117.5	197.6	6,739	3
1980..	1,605	4,583	119.4	191.1	7,550	3
1981..	1,824	4,967	116.6	192.7	8,684	3
1982..	952	5,189	75.6	174.1	8,214	3

¹ Includes slaughter cattle but excludes calves shipped out-of-State.

² State totals may not add due to rounding.

³ Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of crop sales, by islands, 1978-82

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)
1,000 dollars					
STATE					
1978..	182,700	63,090	16,585	10,488	2,117
1979..	217,600	69,409	18,388	11,957	3,132
1980..	385,100	76,596	18,552	12,982	2,304
1981..	207,500	89,745	21,669	15,516	4,420
1982..	230,800	99,484	23,016	14,846	2,205
HAWAII					
1978..	68,600		5,616	6,547	2,117
1979..	79,500		6,624	7,674	3,132
1980..	137,500		7,274	9,619	2,304
1981..	76,800		8,827	11,521	4,420
1982..	86,900		10,785	11,472	2,205
KAUAI					
1978..	39,600		659	872	
1979..	47,700		722	1,617	
1980..	83,600	*	537	1,536	
1981..	46,000	*	595	2,095	
1982..	51,000	*	601	1,451	
MAUI/MOLOKAI/LANAI					
1978..	43,600	28,340	4,897	1,574	
1979..	52,200	32,936	4,895	1,240	
1980..	100,800	36,404	5,276	383	
1981..	50,500	39,915	6,352	291	
1982..	55,000	38,642	6,355	496	
OAHU					
1978..	30,900	34,750	5,413	1,495	
1979..	38,200	36,473	6,147	1,426	
1980..	63,200	40,192	5,465	1,444	
1981..	34,200	49,830	5,895	1,609	
1982..	37,900	60,842	5,275	1,427	

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by islands, 1978-82 - Continued

Year	Macadamia nuts (in shell)	Taro	Field crops (not estimated separately) ¹	Flowers and nursery products ²	Total crops ³
1,000 dollars					
STATE					
1978..	11,287	1,029	3,224	17,458	308,098
1979..	16,769	1,089	3,557	20,778	362,789
1980..	24,174	1,280	4,101	27,688	552,877
1981..	26,454	1,305	5,107	29,482	401,348
1982..	27,136	1,447	4,651	30,559	434,294
HAWAII					
1978..	11,239	264	238	8,627	103,346
1979..	16,712	239	100	9,780	123,856
1980..	24,071	162	60	12,089	193,169
1981..	26,355	104	56	12,496	140,712
1982..	27,047	197	12	13,559	152,312
KAUAI					
1978..	⁴	615	655	279	42,719
1979..	⁴	641	935	153	51,819
1980..	⁴	865	1,085	615	88,296
1981..	⁴	934	1,297	740	51,724
1982..	⁴	972	1,384	299	55,763
MAUI/MOLOKAI/LANAI					
1978..	⁴	⁴	1,267	2,467	82,300
1979..	⁴	⁴	1,536	2,899	95,918
1980..	⁴	⁴	1,773	4,342	149,218
1981..	⁴	⁴	2,387	3,979	103,685
1982..	⁴	⁴	3,029	3,925	107,726
OAHU					
1978..	⁴	⁴	1,064	6,085	79,733
1979..	⁴	⁴	986	7,946	91,196
1980..	⁴	⁴	1,183	10,642	122,194
1981..	⁴	⁴	1,367	12,267	105,227
1982..	⁴	⁴	226	12,776	118,493

⁴ = Less than \$50,000.

¹ Forage and grain crops.

² Flowers, foliage, and nursery products.

³ Total crop values shown for individual islands are actual. Sum of individual commodities may not add to total. Forest product's value combined and included in total crop value.

⁴ Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

**SUMMARY: Value of livestock sales, total value of crop and livestock sales,
and government payments, by islands, 1978-82**

Year	Cattle ¹	Hogs ¹	Milk	Eggs	Broilers and chickens	Other ²	Total livestock ³	Total crops and livestock	Government payments ⁴
1,000 dollars									
STATE									
1978...	24,370	7,961	23,715	12,699	3,335	477	72,557	380,655	4,594
1979...	28,356	7,027	24,894	14,007	3,655	525	78,464	441,253	745
1980...	28,074	7,457	27,071	13,910	4,181	531	81,224	634,101	716
1981...	28,405	8,382	30,320	15,159	5,307	581	88,154	489,502	587
1982...	27,619	8,465	21,908	14,542	5,240	574	78,348	512,642	586
HAWAII									
1978...	16,004	968	5	858	5	340	19,946	123,292	1,879
1979...	17,323	784	5	5	5	352	21,290	145,146	522
1980...	17,973	892	5	5	5	337	22,471	215,640	542
1981...	18,059	954	5	5	5	379	23,018	163,730	440
1982...	18,907	758	5	5	5	404	23,717	176,029	476
KAUAI									
1978...	2,252	486	5	5	5	33	4,313	47,032	950
1979...	2,137	391	5	5	5	29	4,376	56,195	60
1980...	3,118	674	5	5	5	45	5,732	94,028	41
1981...	2,295	746	5	5	5	63	5,244	56,968	43
1982...	1,913	683	5	5	5	22	4,724	60,487	27
MAUI/MOLOKAI/LANAI									
1978...	5,050	1,628	5	5	5	67	9,167	91,467	1,056
1979...	7,178	1,625	5	5	5	112	11,546	107,464	101
1980...	5,580	1,865	5	5	5	115	10,084	159,302	87
1981...	6,398	2,146	5	5	5	91	11,605	115,290	69
1982...	6,043	2,110	5	5	5	105	11,358	119,084	64
OAHU									
1978...	1,064	4,879	19,340	10,663	3,148	37	39,131	118,864	709
1979...	1,718	4,227	19,975	11,856	3,444	32	41,252	132,448	62
1980...	1,403	4,026	21,719	11,767	3,988	34	42,937	165,131	46
1981...	1,653	4,536	24,136	12,837	5,077	48	48,287	153,514	35
1982...	756	4,914	15,687	12,160	4,989	43	38,549	157,042	19

¹ Excludes interfarm sales; Includes out-of-State sales of slaughter cattle and feeder calves.

² Includes sheep, wool, turkeys, horses, honey, and beeswax.

³ Total livestock value shown for individual islands for 1978-1980 are actual. Sum of individual commodities may not add to total.

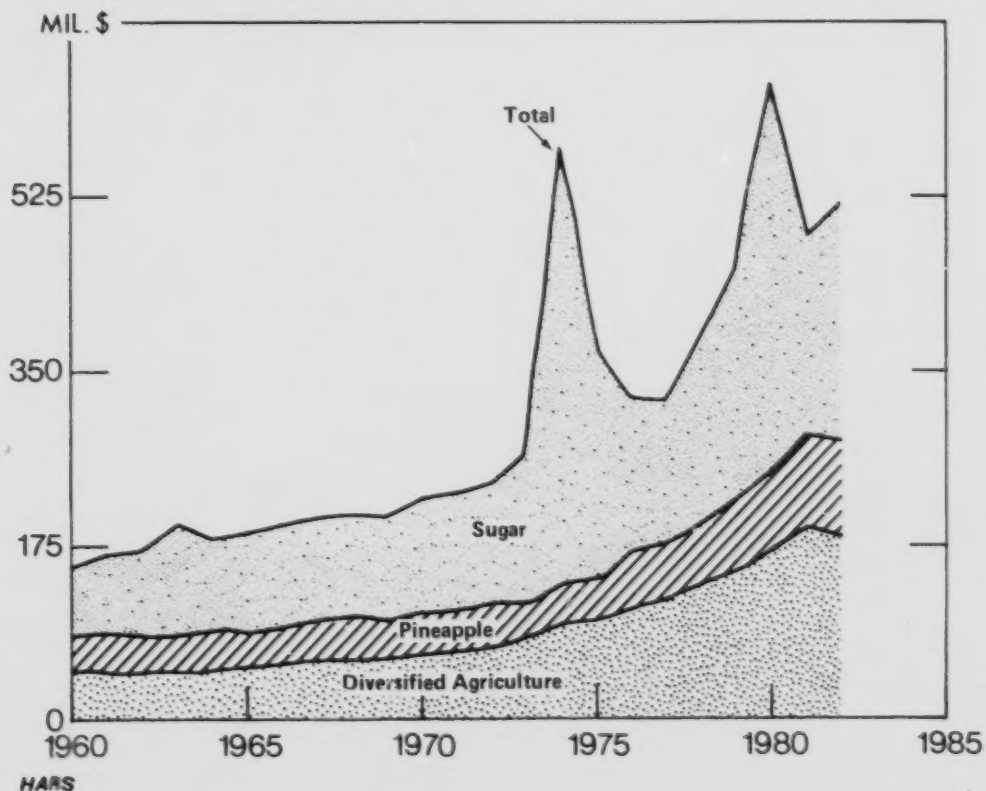
⁴ Includes all government payments, such as Agricultural Conservation Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.

⁵ Island data not shown separately to avoid disclosure of individual operations but combined and included in State total.

Diversified agriculture ranked by value, State of Hawaii, 1980-82

Crops	Rank			Value of production			Percent of diversified agriculture		
	1980	1981	1982	1980	1981	1982	1980	1981	1982
	----- Number -----			----- 1,000 dollars -----			----- Percent -----		
Flowers and nursery products..	2	2	1	27,688	29,482	30,559	16.1	15.3	16.8
Cattle	1	3	2	28,074	28,405	27,619	16.3	14.8	15.2
Macadamia nuts.	4	4	3	24,174	26,454	27,136	14.0	13.7	14.9
Vegetables and melons.	5	5	4	18,552	21,669	23,016	10.8	11.3	12.6
Milk.	3	1	5	27,071	30,320	21,908	15.7	15.8	12.0
Fruits (excluding pineapple)	7	6	6	12,982	15,516	14,846	7.5	8.1	8.1
Eggs.	6	7	7	13,910	15,159	14,542	8.1	7.9	8.0
Hogs	8	8	8	7,457	8,382	8,465	4.3	4.3	4.6
Broilers and chickens	9	9	9	4,181	5,307	5,240	2.4	2.8	2.9
Forage, grain, and forest products ...	10	10	10	4,201	5,257	4,801	2.4	2.7	2.6
Coffee.	11	11	11	2,304	4,420	2,205	1.3	2.3	1.2
Taro	12	12	12	1,280	1,305	1,447	.8	.7	.8
Other livestock	13	13	13	531	581	574	.3	.3	.3
TOTAL.....				172,405	192,257	182,358	100.0	100.0	100.0

CASH RECEIPTS OF AGRICULTURAL COMMODITIES, STATE OF HAWAII, 1960-82





1982 CROP SUMMARY

Weather often plays an important role in the outcome of crop production and 1982 was no exception. After an excessively wet beginning, the year was climaxed in late November by the first hurricane to directly hit the islands in 23 years. Almost daily rains in varying degrees of intensity during the early months depressed yields of some vegetables and hampered production of several flower crops. Wet conditions delayed sugarcane ripening and harvesting operations and provided ideal conditions for the serious outbreak of phytophthora disease in Kauai papaya orchards. On November 23, Hurricane Iwa, packing winds of 90 mph and gusts up to 110 mph, caused extensive damage to property and crops on Kauai and Oahu. In its wake, virtually every segment of agriculture suffered losses. Damage was heaviest on Kauai where vegetable crops were totally destroyed. Fruit crops, mainly papayas and bananas, sustained heavy permanent losses due to uprooting, leaf stripping, and waterlogging. Kauai produces about 3 percent of the State's vegetables and normally about 6-14 percent of the papaya crop. Similar, but less extensive, damage occurred on Oahu. Unlike Kauai, Oahu grows a major share of some of the State's principal vegetables. The banana crop on Oahu also suffered heavy damage. The year ended with a favorable mix of sunny skies and occasional showers. This provided farmers an opportunity to begin crop recovery programs.

SUGAR production dropped to 983,000 tons, a 21 year low, and was a direct result of the weather. Excessive rain early in the year slowed ripening of the crop and muddy conditions delayed harvesting operations. Harvesting of some fields intended for 1982 was postponed until the following year. Although Hurricane Iwa flattened cane and caused extensive leaf stripping to fields on Kauai and Oahu, damage to the crop was considered minor and not as serious as it first appeared. Fortunately there was not a lot of rain associated with the storm. Major damage was sustained by the sugar mills and other structures on Kauai causing further processing delay. Prices improved in 1982 and despite

lower production the processed value of sugar and molasses totaled \$351.5 million, \$23.6 million more than the previous year.

PINEAPPLE, the State's second leading crop, saw production rebound in 1982 to 670,000 tons after several years of steady decline. Both processed and fresh utilization increased, but because of a higher value, fresh market sales continued to be an increasingly important factor in the total. The equivalent farm value was \$99.5 million with fresh sales accounting for over half. Processed prices dropped from the previous year and the estimated processed value at \$151.0 million was down \$21 million from the 1981 value.

Despite adverse weather and a sluggish economy, sales of **FLOWERS AND NURSERY PRODUCTS** reached a new high in 1982 of \$30.6 million and in doing so became the number one agricultural sector behind sugar and pineapple. A second half surge in potted foliage plant sales was largely responsible for boosting sales to a record high of \$8.8 million. Despite production and growing problems, anthurium growers saw the value of their sales climb to \$5.6 million compared with \$5.3 million the year before. Orchid production, after several years of steadily increasing sales, was adversely affected by the wet weather during the early months of the year. Dendrobium orchid sales (cut sprays, potted plants, and lei blooms) were off 12 percent despite an increase in the growing area. Overall sales from the major lei flower crops were about the same as the previous year but increases for vanda orchids and plumerias offset weather related declines of all others.

Hawaii's **MACADAMIA NUT** production for the 1982 crop year was pegged at a record 36.7 million pounds, 10 percent greater than the previous record high 1980 crop. Contributing to this increase were a 2 percent increase in harvested acres and a record high average yield. Total area in crop was estimated at 14,700 acres of which 10,200 were harvested. The average wet-in-shell price received by growers was 73.9 cents per pound, a decline of 7 percent from the 1981 price. However, despite lower prices the record production was enough to boost the farm value to \$27.1 million, also a new high.

Production of over 50 **VEGETABLES AND MELONS** was virtually unchanged from the previous year at about 73 million pounds. However, the farm value of sales reached a record \$23 million, 6 percent greater than the 1981 record. Ginger root production at 3.6 million pounds with a value of \$3.4 million was an important factor in raising the total value of vegetables to the record. Other major crops showing increases were head cabbage and Chinese cabbage. However, production and value of over half the vegetable crops declined with adverse weather during the early part of the year being a factor. Production of **TARO** continued to rebound hitting 6.5 million pounds with a record high farm value of \$1.4 million.

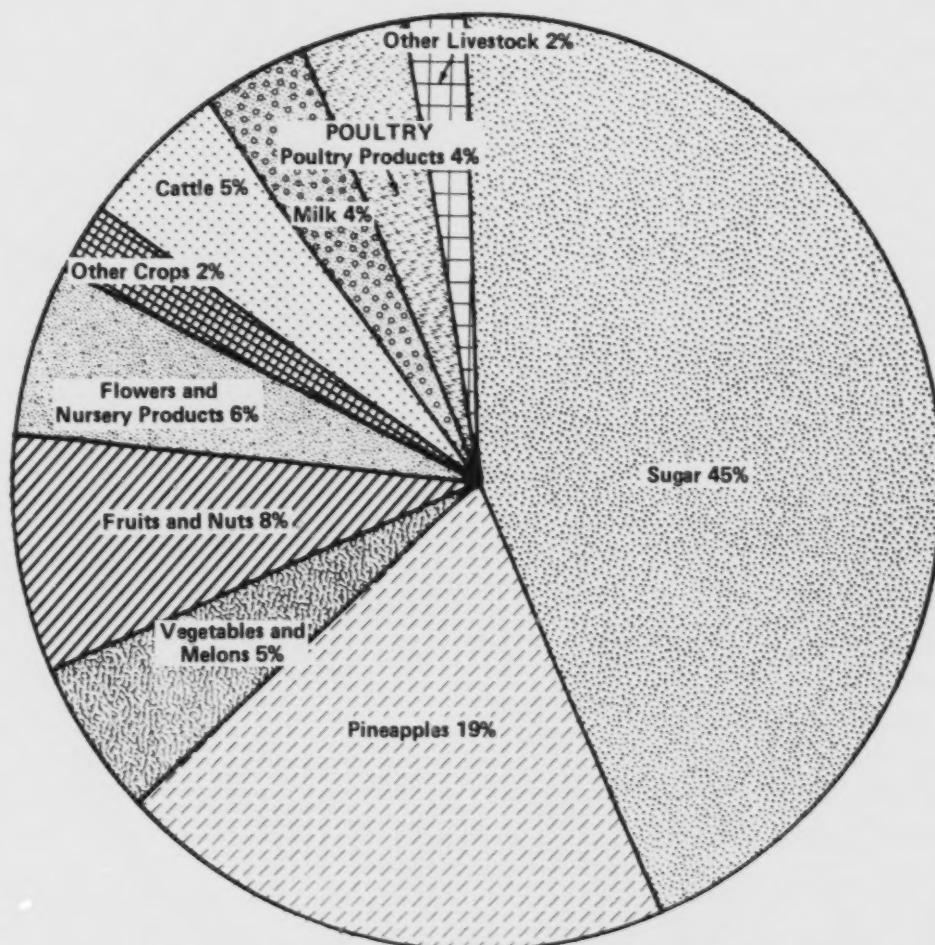
FRUIT production (excluding pineapples) dropped to 70.8 million pounds. Production of most of the major fruits declined. Papaya output, hampered all year by serious disease problems on Kauai and finally the hurricane in November, declined 21 percent to 52.8 million pounds. Banana production at 5.8 million pounds was off 4 percent. The major hurricane related effects on banana production will be felt on 1983 production. Total guava processing was down, but cultivated production increased from the previous year. Some of the other minor fruits such as avocados, passion fruit, and oranges showed some production increase. The combined value of all fruits dipped to \$14.8 million, a 5 percent decline.

COFFEE production for the 1982-83 crop season, at 1,050,000 pounds, was less than half of the previous year. Poor weather during the flowering and growing period was held responsible for the decline. Crop value of \$2.2 million was down 50 percent.

Principal crops ranked by value, State of Hawaii, 1980-82

Crops	Rank			Value of production			Percent of all crops		
	1980	1981	1982	1980	1981	1982	1980	1981	1982
	Number			1,000 dollars			Percent		
Sugar.....	1	1	1	385,100	207,500	230,800	69.7	51.7	53.1
Pineapple.....	2	2	2	76,596	89,745	99,484	13.9	22.4	22.9
Macadamia nuts.....	3	3	3	24,174	26,454	27,136	4.4	6.6	6.2
Papayas.....	4	4	4	9,964	12,413	11,484	1.8	3.1	2.6
Potted foliage plants...	6	5	5	5,190	7,268	8,820	.9	1.8	2.0
Anthuriums.....	5	6	6	6,878	5,295	5,633	1.2	1.3	1.3
Ginger root.....	10	10	7	1,090	2,179	3,350	.2	.5	.8
Tomatoes.....	7	8	8	2,387	2,930	2,707	.4	.7	.6
Lettuce.....	9	9	9	1,950	2,315	2,463	.4	.6	.6
Coffee.....	8	7	10	2,304	4,420	2,205	.4	1.1	.5

STATE OF HAWAII, 1982 AGRICULTURAL VALUE RATIOS



HARS

WEATHER: Precipitation, selected stations, State of Hawaii, 1982

STATIONS	YEAR & NORMAL	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	% OF NORMAL
Inches															
ISLAND OF HAWAII															
Hawaii National Park Hq. 54	Normal	10.61	10.23	11.75	10.10	7.75	4.67	5.23	7.20	4.58	6.89	11.47	12.33	102.81	
	1982	16.84	3.11	22.30	10.29	7.31	5.83	16.74	19.85	7.12	5.51	16.97	7.86	139.73	135.9
Hawi 168.	Normal	4.70	4.34	5.22	5.04	3.56	2.96	3.93	4.19	2.27	3.61	4.02	5.92	49.76	
	1982	9.20	6.37	12.04	6.91	3.92	2.70	9.12	7.17	2.89	2.84	3.48	7.20	73.84	148.4
Hilo (285)	Normal	9.07	12.90	13.69	12.88	10.07	6.61	9.54	10.86	7.44	10.96	13.77	15.76	133.57	
	1982	13.58	1.35	48.50	12.00	6.89	6.03	28.59	25.45	9.92	6.53	4.74	6.78	170.36	127.5
Keelakekua (H184) . .	Normal	3.50	2.40	3.80	4.10	5.90	6.10	6.80	8.70	8.00	6.20	3.60	2.10	61.20	
	1982	8.43	5.64	6.14	5.31	2.72	15.00	4.69	7.00	9.09	4.88	4.03	2.42	75.35	123.1
Naalehu 14.	Normal	7.97	5.85	5.53	2.70	2.18	1.79	1.58	3.92	3.36	3.88	5.21	4.57	48.54	
	1982	14.85	3.12	.72	1.58	3.06	6.24	8.93	6.81	1.74	3.21	3.06	2.18	55.50	114.3
Pahoa (H183)	Normal	11.02	13.17	15.16	12.59	11.87	8.10	10.20	11.13	8.50	11.81	14.28	17.28	145.11	
	1982	17.83	23.03	41.98	22.52	8.49	8.85	25.46	21.88	13.18	8.95	14.34	7.85	172.38	118.8
Waimea (H186)	Normal	4.21	3.78	3.97	3.55	2.20	1.57	2.31	2.52	1.07	2.03	2.78	4.84	34.83	
	1982	14.92	6.13	8.43	7.26	2.13	2.92	7.79	4.50	2.85	2.02	3.06	6.83	68.84	197.6
ISLAND OF KAUAI															
Eleale 927	Normal	5.74	3.39	3.28	2.39	1.74	1.10	1.33	1.79	1.40	2.61	3.60	5.12	33.49	
	1982	9.15	5.23	1.75	3.59	2.51	1.17	1.17	1.87	.59	13.76	3.99	4.05	48.83	145.8
Kekaha 944	Normal	4.63	2.57	2.37	1.56	1.04	.25	.39	.75	.74	1.72	2.18	4.24	22.44	
	1982	12.53	4.35	--	--	1.15	.40	.49	1.77	.14	13.26	8.26	3.38	45.73	203.8
Wailua (H140)	Normal	9.42	7.09	8.28	7.07	5.45	4.07	5.68	6.60	4.65	7.45	9.03	9.41	84.20	
	1982	15.47	8.96	27.51	9.84	5.24	4.54	10.44	19.08	5.83	12.62	6.34	9.08	134.95	160.3
ISLAND OF LANAI															
Lanai Airport (LNY) .	Normal	5.50	1.40	1.60	.90	.70	.20	.50	.60	.70	1.60	1.20	2.30	17.20	
	1982	10.57	14.08	4.14	1.61	.44	2.32	.10	.50	.13	.09	6.35	4.50	44.83	260.7
ISLAND OF MAUI															
Hamakuaopoko															
HC & S 485	Normal	5.10	4.85	5.81	4.50	2.83	2.39	3.60	3.65	1.89	3.69	5.07	6.73	50.11	
	1982	10.88	4.08	9.89	7.28	2.70	2.22	3.53	7.80	1.57	3.84	3.02	6.53	63.34	126.4
Hana Airport 355 . . .	Normal	9.47	7.93	8.85	7.14	5.70	3.82	5.28	5.78	4.85	6.48	8.16	6.76	80.22	
	1982	16.91	8.09	27.76	11.38	3.01	4.24	14.21	8.06	3.78	7.73	6.04	8.43	119.64	149.1
Field 820 311	Normal	3.67	1.76	2.03	.79	.27	.10	.15	.19	.07	.68	1.69	2.39	13.79	
	1982	8.66	6.46	4.59	.88	.00	.00	.00	.00	.48	2.62	1.87	3.55	29.11	211.1
Kula (H165)	Normal	5.64	3.45	3.53	2.98	2.20	1.41	2.17	2.07	1.93	1.91	2.95	3.61	33.85	
	1982	11.29	8.93	7.71	3.59	.00	12.10	3.14	3.80	.39	2.92	3.24	5.46	62.57	184.8
Lahaina 361	Normal	3.70	1.65	2.04	.93	.48	.09	.21	.33	.23	.90	2.07	2.86	15.49	
	1982	11.12	3.50	5.42	.87	.00	.08	.03	1.26	2.17	4.78	1.15	3.98	34.36	221.8
Wailuku (H166)	Normal	4.88	3.81	4.16	2.41	1.02	.43	.74	.77	.49	1.86	2.79	4.65	28.01	
	1982	11.07	6.50	7.27	5.71	.30	.52	.55	.96	.44	3.93	1.72	5.00	43.97	157.0
ISLAND OF MOLOKAI															
Molokai Airport (MKK)	Normal	4.64	2.84	3.90	1.90	1.14	.48	.74	.76	.70	1.59	3.48	4.37	26.54	
	1982	11.63	3.56	3.43	5.54	.02	.86	.81	.48	.52	7.41	1.30	7.75	43.31	163.2
ISLAND OF OAHU															
Kahuku (H109)	Normal	4.40	3.10	4.40	2.90	1.90	1.30	1.70	2.10	1.90	2.50	3.40	4.10	33.70	
	1982	10.65	3.86	13.43	1.48	6.41	1.55	5.33	2.57	2.70	8.85	1.19	4.23	62.25	184.7
Waialua 847	Normal	4.99	3.65	3.84	2.32	1.34	.44	.95	1.26	.67	2.27	3.15	4.64	29.52	
	1982	8.81	4.45	6.07	3.68	.70	2.66	2.33	3.77	1.01	9.29	4.56	5.82	53.15	180.1
Waianae (H117)	Normal	3.79	3.13	2.31	1.12	.61	.35	.38	.84	.77	1.87	1.81	2.66	19.64	
	1982	17.69	1.38	1.89	1.60	.16	.92	.19	2.39	.44	9.34	.64	3.22	39.86	202.9
Waimanalo Exp. 795.1	Normal	8.35	3.98	5.80	4.11	2.83	1.22	1.92	1.88	1.81	3.59	6.31	6.26	48.06	
	1982	18.81	6.06	5.96	4.12	1.63	4.99	2.53	4.83	1.60	8.47	2.90	8.06	69.96	145.6
Waipahu Sugar 750 . .	Normal	5.00	2.71	3.20	1.88	1.20	.36	.76	.92	.84	2.04	3.35	4.09	26.35	
	1982	12.18	3.20	5.90	2.94	.27	1.68	.63	1.87	.85	8.42	3.44	3.72	45.10	171.2

-- = No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration.

**SUGARCANE: Number of farms, acreage, yield, production, price,
and value, by islands, 1978-82¹**

Year	Farms ²	Acreage		Yield per acre (cane) ³	Production of cane for sugar	Farm price ³	Value of cane for sugar ⁴
		In crop ²	Harvested for sugar				
	Number	----- 1,000 acres -----		Tons	1,000 tons	Dollars per ton	Million dollars
STATE							
1978..	480	220.7	99.4	93.2	9,263	19.70	182.7
1979..	400	218.8	100.6	95.7	9,632	22.60	217.6
1980..	380	217.7	97.4	94.6	9,214	41.80	385.1
1981..	360	216.1	97.6	90.5	8,831	23.50	207.5
1982..	285	204.8	89.3	98.6	8,808	26.20	230.8
HAWAII							
1978..	469	92.6	38.4	102.4	3,936	17.40	68.6
1979..	389	91.7	39.4	102.5	4,036	19.70	79.5
1980..	369	91.2	37.4	99.5	3,718	37.00	137.5
1981..	349	90.5	38.4	91.3	3,507	21.90	76.8
1982..	274	83.2	35.1	107.8	3,780	23.00	86.9
KAUAI							
1978..	5	46.1	22.1	86.7	1,915	20.70	39.6
1979..	5	45.8	23.2	85.7	1,992	24.00	47.7
1980..	5	46.0	22.5	83.4	1,873	44.60	83.6
1981..	5	45.8	21.8	89.4	1,949	23.60	46.0
1982..	5	44.9	20.9	89.5	1,869	27.30	51.0
MAUI							
1978..	3	48.0	22.8	87.1	1,985	22.00	43.6
1979..	3	47.7	21.0	100.6	2,110	24.70	52.2
1980..	3	47.4	22.5	101.3	2,278	44.20	100.8
1981..	3	47.1	22.5	90.6	2,038	24.80	50.5
1982..	3	47.5	19.2	96.3	1,853	29.70	55.0
OAHU							
1978..	3	34.0	16.1	88.9	1,427	21.60	30.9
1979..	3	33.6	17.0	87.8	1,494	25.60	38.2
1980..	3	33.1	15.0	89.5	1,345	47.00	63.2
1981..	3	32.7	14.9	89.7	1,337	25.60	34.2
1982..	3	29.2	14.1	92.7	1,306	29.00	37.9

¹ Primary data source, Hawaiian Sugar Planters' Association.

² At end of year.

³ Yield and farm price may not compute exactly due to rounding.

⁴ Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by islands, 1978-82 ¹

Year	Mill production		Average returns received ³		Value of production		
	Raw sugar 96°	Molasses ²	Raw sugar 96°	Molasses ²	Raw sugar 96°	Molasses ²	Total
	----- 1,000 tons -----		----- Dollars per ton -----		----- Million dollars -----		
	STATE						
1978..	1,029	310	262	50.60	269.5	15.7	285.2
1979..	1,060	326	304	72.10	322.2	23.5	345.7
1980..	1,023	315	554	87.90	566.4	27.7	594.1
1981..	1,048	312	300	43.90	314.2	13.7	327.9
1982..	983	287	350	27.60	343.9	7.6	351.5
	HAWAII						
1978..	388	112	261	50.00	101.4	5.6	107.0
1979..	388	119	304	71.40	117.9	8.5	126.4
1980..	367	107	553	86.90	202.9	9.3	212.2
1981..	384	105	299	43.80	114.9	4.6	119.5
1982..	369	99	350	27.60	129.0	2.8	131.8
	KAUAI						
1978..	223	67	262	50.70	58.5	3.4	61.9
1979..	233	69	303	72.50	70.6	5.0	75.6
1980..	223	65	553	87.70	123.4	5.7	129.1
1981..	236	69	300	43.50	71.0	3.0	74.0
1982..	217	63	351	27.10	76.2	1.6	77.8
	MAUI						
1978..	245	76	262	51.30	64.2	3.9	68.1
1979..	253	81	304	72.80	76.8	5.9	82.7
1980..	266	90	554	88.90	147.4	8.0	155.4
1981..	255	84	300	45.20	76.6	3.8	80.4
1982..	235	79	351	28.00	82.2	2.2	84.4
	OAHU						
1978..	173	55	262	50.90	45.4	2.8	48.2
1979..	186	57	306	71.90	56.9	4.1	61.0
1980..	167	53	555	88.70	92.7	4.7	97.4
1981..	173	54	299	42.60	51.7	2.3	54.0
1982..	162	46	349	27.90	56.5	1.0	57.5

¹ Primary data source, Hawaiian Sugar Planters' Association.

² Commercial.

³ Derived from production and value. State and island prices may not compute exactly due to rounding.

FLOWERS AND NURSERY PRODUCTS: State of Hawaii, 1978-82

Commodity	Number of farms					Number sold					Value of sales				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- 1,000 dollars -----														
Cut flowers: (000 dozens)															
Anthuriums ¹	187	180	228	235	225	1,925	2,111	2,532	2,104	1,984	5,017	5,568	6,878	5,295	5,633
Birds of paradise	21	16	27	30	30	29	13	27	28	17	44	33	70	77	58
Carnations	10	14	15	10	9	42	40	54	53	36	80	74	102	114	80
Chrysanthemums, other	4	5	4	3	3	8	10	7	11	2	39	43	27	43	9
Gingers, red	2	2	2	51	51	NA	NA	NA	65	64	2	2	2	157	205
Gingers, other	3 ²⁴	3 ²⁷	3 ³⁵	4	10	NA	NA	NA	NA	NA	3 ⁷⁵	3 ¹¹³	3 ²⁵³	11	10
Roses	4	5	6	6	6	466	246	339	452	478	738	726	798	1,032	1,381
Others	36	36	49	68	51	NA	NA	NA	NA	NA	254	385	499	542	396
Protea: (000 stems)															
Pincushion	11	10	12	14	14	461	819	703	518	637	165	195	181	183	210
Other	9	7	13	12	21	59	186	211	164	347	56	86	113	137	201
Chrysanthemums, pompon (000 bunches)	14	12	15	16	17	279	325	364	471	439	204	282	343	590	546
Cut orchids: (000 flowers)															
Cattleyas	21	16	30	31	28	54	51	88	63	67	28	30	70	63	54
Cymbidiums	16	18	17	16	17	746	628	448	420	736	273	245	150	199	224
Others ⁴	22	15	19	13	24	NA	NA	NA	NA	NA	99	45	16	10	83
Dendrobium sprays (000 dozens)	24	26	41	51	56	31	44	70	83	76	136	192	336	431	416
Lei flowers: (Mil. flowers)															
Carnations	21	21	25	24	29	38.8	36.8	36.6	40.3	33.7	1,043	1,140	1,169	1,338	1,206
Vanda, Miss Joaquim . .	26	26	35	31	31	43.2	31.6	38.8	57.1	79.7	555	441	573	815	1,185
Plumerias	15	17	21	20	21	36.6	38.6	23.7	17.8	31.9	442	418	440	291	446
Tuberose	3	3	5	6	7	19.5	21.1	32.0	30.8	18.2	339	401	684	668	382
Dendrobiums	5	9	21	25	37	5	2.8	6.6	8.5	6.2	5	73	175	244	172
Pikake (000 strands) . .	6	5	16	15	16	65	69	147	140	118	92	81	169	180	155
Cut foliage: (Mil. leaves)															
Ti leaves	31	35	62	57	55	15.0	11.5	14.5	10.1	10.5	247	285	332	266	279
Other greens	27	20	34	32	30	NA	NA	NA	NA	NA	140	149	242	252	280
Potted plants: (000 pots)															
Anthuriums	6	6	24	21	15	6	6	129	98	82	6	6	230	128	126
Chrysanthemums	9	9	11	11	11	176	189	192	205	214	435	523	607	689	681
Dendrobium orchids . .	7	7	75	96	91	7	7	269	243	183	7	7	1,189	870	767
Other orchids ⁷	62	76	67	70	66	252	450	245	347	312	908	1,508	1,038	1,655	1,415
Poinsettias	6	24	30	25	26	6	120	134	136	149	6	323	410	430	474
Potted foliage ^{1 8}	71	99	95	94	90	NA	NA	NA	NA	NA	3,441	4,052	5,190	7,268	8,820
Other potted plants ⁹ . .	49	73	70	83	76	NA	NA	NA	NA	NA	576	914	1,340	1,565	1,347
Ornamentals and trees	63	73	65	72	39	NA	NA	NA	NA	NA	811	1,027	1,181	851	463
Unfinished flower and foliage stock	5	54	36	42	42	NA	NA	NA	NA	NA	5	919	1,536	1,300	1,355
Other nursery products¹⁰	58	14	71	99	77	NA	NA	NA	NA	NA	1,221	507	1,347	1,788	1,500
TOTAL	¹¹ 600	¹¹ 580	¹¹ 640	¹¹ 680	¹¹ 650						17,458	20,778	27,688	29,482	30,559

NA = Not available. ¹ Totals may not equal totals in U. S. release, "Floriculture Crops" because of definition. ² Prior to 1981, included with other gingers. ³ Including red gingers. ⁴ Includes vanda hybrids, phalaenopsis, and cypripediums. ⁵ Included in other nursery products figures. ⁶ Included in other potted plant figures. ⁷ Prior to 1980, dendrobium figures included in all potted orchid category now called other orchids. ⁸ Potted foliage plants grown and sold for indoor or patio use. ⁹ Includes potted foliage grown and sold for outdoor or landscaping purposes and other potted flowering plants. ¹⁰ Includes bedding plants, plant rentals, and any other flowers or nursery products not elsewhere classified. ¹¹ Unduplicated count. Number for each individual flower or item is count of those having sales of that item during each year.

FLOWERS AND NURSERY PRODUCTS, BY ISLANDS, 1978-82

Island/Commodity	Number sold					Value of sales				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
HAWAII	----- 1,000 dollars -----									
Selected items:										
Anthuriums (000 dozens) ..	1,839	2,050	2,444	2,021	1,940	4,801	5,371	6,596	5,037	5,470
Cymbidiums (000 flowers) .	744	628	448	417	730	272	245	150	197	220
Vanda, Miss Joaquim (Mil. flowers)	41.0	29.2	36.5	55.3	78.5	525	398	534	786	1,160
Cut foliage	NA	NA	NA	NA	NA	245	222	325	265	320
Potted orchids (000 pots) ..	113	145	147	147	116	280	381	417	537	525
Potted foliage	NA	NA	NA	NA	NA	1,211	1,619	2,269	3,522	3,600
Ornamentals and trees	NA	NA	NA	NA	NA	309	196	110	165	60
Unfinished stock and cuttings	NA	NA	NA	NA	NA	²	326	661	747	400
All other flowers and nursery products¹	NA	NA	NA	NA	NA	984	1,022	1,027	1,240	1,804
TOTAL						8,627	9,780	12,089	12,496	13,559
KAUAI										
Selected items:										
Anthuriums (000 dozens) ..	5	8	5	5	3	11	20	11	10	8
All other flowers and nursery products¹	NA	NA	NA	NA	NA	268	133	604	730	291
TOTAL						279	153	615	740	299
MAUI/MOLOKAI										
Selected items:										
Carnations, cut (000 dozens)	41	28	53	53	36	77	50	102	114	80
Chrysanthemums, pompon (000 bunches)	38	73	61	45	52	33	64	65	51	58
Protea: (000 stems)										
Pincushion	437	798	662	436	549	156	183	167	154	187
Other	59	185	210	163	315	55	81	112	135	195
Carnation heads (000 flowers)	36.9	34.0	35.7	38.8	32.0	1,003	1,137	1,142	1,291	1,153
Potted foliage	NA	NA	NA	NA	NA	²	²	²	525	640
All other flowers and nursery products¹	NA	NA	NA	NA	NA	1,143	1,384	2,754	1,709	1,612
TOTAL						2,467	2,899	4,342	3,979	3,925

See footnotes at end of table.

Continued

FLOWERS AND NURSERY PRODUCTS, BY ISLANDS, 1978-82 -- Continued

Island/Commodity	Number sold					Value of sales				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
OAHU	----- 1,000 dollars -----									
Selected items:										
Anthuriums, cut (000 dozens)	79	61	82	78	40	203	176	269	246	154
Gingers, red (000 dozens) ..	NA	NA	NA	38	46	³	³	³	104	147
Gingers, other	NA	NA	NA	NA	NA	47	87	206	10	5
Chrysanthemums, pompon (000 bunches)	240	252	304	332	303	169	218	278	381	336
Cattleyas (000 flowers)	18	23	50	45	50	16	16	49	46	44
Dendrobium, sprays (000 dozens)	22	28	54	65	58	101	132	274	354	325
Plumerias (Mil. flowers)	20.4	18.0	15.5	4.0	12.2	302	246	269	91	159
Dendrobiums, for lei (Mil. flowers)	²	2.8	6.4	8.5	5.5	²	72	169	235	147
Pikake (000 strands)	63	69	144	137	118	89	81	163	174	155
Cut foliage	NA	NA	NA	NA	NA	135	212	248	249	237
Potted chrysanthemums ...	33	41	41	50	73	77	109	152	150	196
Potted orchids	116	272	310	438	341	523	975	1,296	1,836	1,468
Potted poinsettias	NA	84	90	93	105	²	202	241	254	316
Potted foliage	NA	NA	NA	NA	NA	1,937	2,034	3,428	4,173	4,575
Unfinished stock and cuttings	NA	NA	NA	NA	NA	²	576	740	1,933	795
All other flowers and nursery products¹	NA	NA	NA	NA	NA	2,486	2,810	2,860	2,031	3,717
TOTAL						6,085	7,946	10,642	12,267	12,776

NA = Not available.

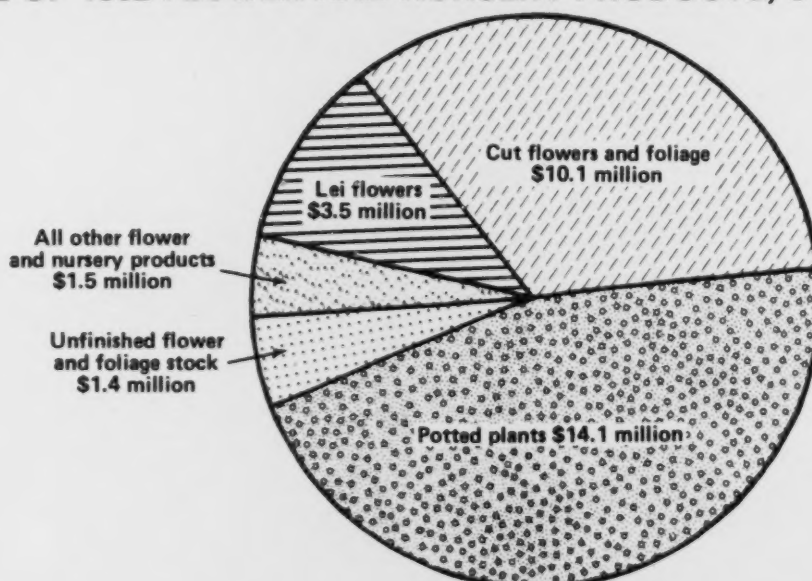
¹ Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the islands are included in the all other category.

² Included in the all other category.

³ Included in other nursery products figures.

³ Prior to 1981, included with other gingers.

VALUE OF 1982 FLOWER AND NURSERY PRODUCTS, STATE OF HAWAII



HARS

**FLOWERS AND NURSERY PRODUCTS: Number of farms and growing area used
for flowers and nursery products, by islands, 1978-82**

Year	Hawaii	Kauai	Maui	Oahu	State
NUMBER OF FARMS - - Unduplicated					
1978....	300	25	95	180	600
1979....	290	25	95	170	580
1980....	300	25	95	220	640
1981....	330	25	85	240	680
1982....	310	25	80	235	650
GREENHOUSE - - 1,000 square feet ¹					
1978....	700	16	130	575	1,421
1979....	750	70	200	605	1,625
1980....	870	32	200	651	1,753
1981....	1,202	38	280	775	2,295
1982....	1,270	20	191	918	2,399
ARTIFICIAL SHADE STRUCTURE - - 1,000 square feet					
1978....	10,750	84	390	2,650	13,874
1979....	13,450	165	450	2,885	16,950
1980....	15,352	69	652	3,494	19,567
1981....	18,529	63	734	3,742	23,068
1982....	19,425	182	648	4,871	25,126
NATURAL SHADE AREA - - Acres					
1978....	125	2	3	10	140
1979....	110	1	2	3	116
1980....	119	4	--	7	130
1981....	116	6	--	11	133
1982....	104	3	--	12	119
OPEN FIELD - - Acres					
1978....	325	15	170	202	712
1979....	330	20	190	230	770
1980....	316	16	254	272	858
1981....	331	19	255	290	895
1982....	333	38	243	263	877
TOTAL AREA - - Acres					
1978....	713	19	185	286	1,203
1979....	766	26	207	313	1,312
1980....	807	22	274	374	1,477
1981....	900	27	278	405	1,610
1982....	912	46	262	408	1,628

¹ - Less than 500 square feet.
Glass or glass substitute structure.

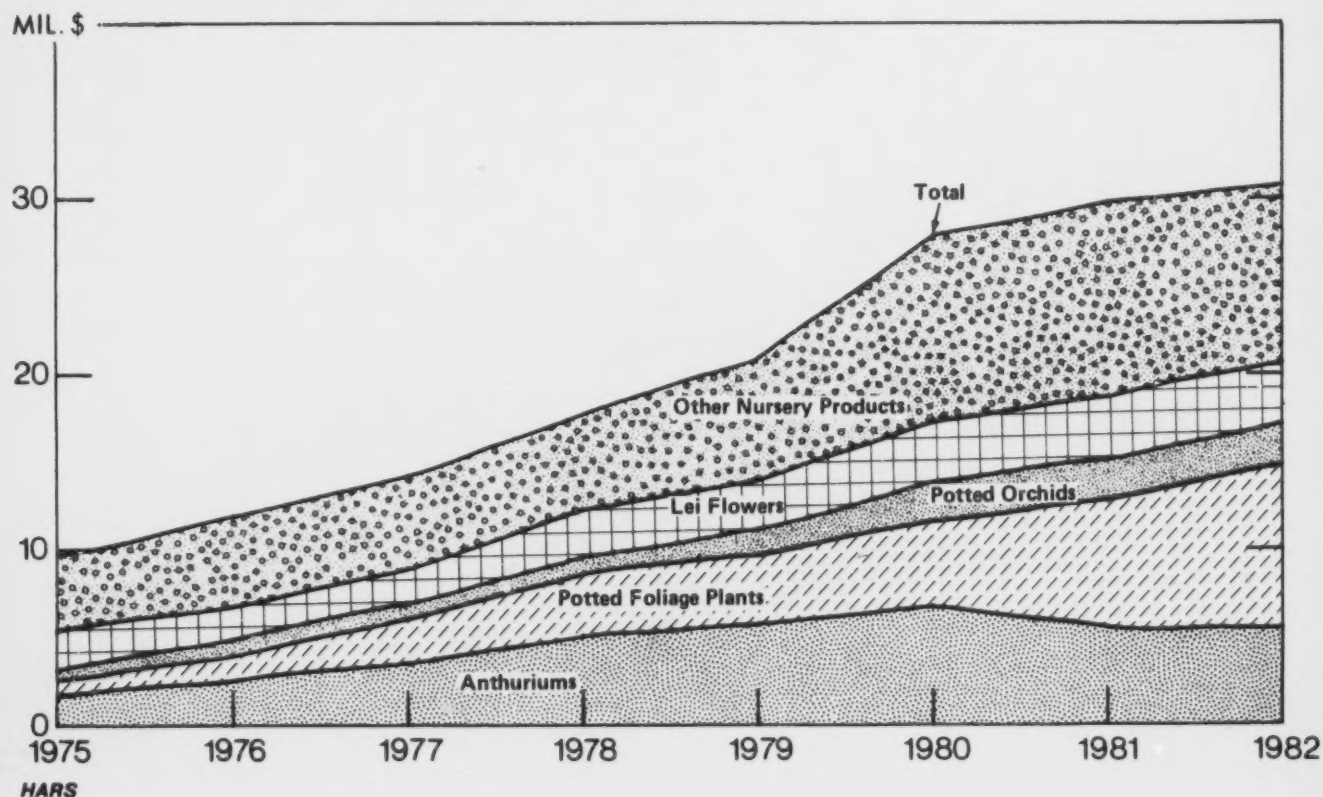
FLOWERS AND NURSERY PRODUCTS: Area used for production, State of Hawaii, 1982

Area used for	Greenhouse- Glass or glass substitute	Artificial shade- Saran, lath, etc.	Natural shade- Hapu'u, citrus, etc.	Open field
	----- 1,000 square feet -----	----- Acres -----		
Anthuriums.....	1	16,167	101	--
Dendrobium orchids.....	317	1,343	--	3
All other orchids ¹	420	370	1	68
Potted foliage.....	796	4,732	2	20
Protea.....	--	--	--	111
All other flowers and nursery products.....	865	2,514	15	675
TOTAL.....	2,399	25,126	119	877

-- = Less than 500 square feet.

¹ Includes vandas.

**VALUE OF FLOWERS AND NURSERY
PRODUCTS, STATE OF HAWAII, 1975-1982**



Area used for anthurium production, by islands, 1978-82

Year	Hawaii	Kauai	Maui	Oahu	State
1,000 square feet					
ARTIFICIAL SHADE STRUCTURE					
1978.....	9,050	39	5	450	9,544
1979.....	11,150	55	5	460	11,670
1980.....	12,646	30	3	426	13,105
1981.....	15,300	21	3	386	15,710
1982.....	15,800	15	3	350	16,168
NATURAL SHADE AREA					
1978.....	4,661	0	0	44	4,705
1979.....	4,574	0	0	44	4,618
1980.....	4,879	44	0	44	4,967
1981.....	4,574	44	0	--	4,618
1982.....	4,356	--	--	44	4,400
TOTAL ARTIFICIAL AND NATURAL SHADE					
1978.....	13,711	39	5	494	14,249
1979.....	15,724	55	5	504	16,288
1980.....	17,525	74	3	470	18,072
1981.....	19,874	65	3	386	20,328
1982.....	20,156	15	3	394	20,568

-- = Less than 500 square feet.

ANTHURIUMS: Mainland and foreign shipments from the Island of Hawaii, 1978-82

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1,000 dozens													
Mainland:													
1978.....	31.7	31.8	30.4	33.0	40.0	31.1	33.5	36.9	35.6	37.7	35.0	53.7	430.4
1979.....	34.5	39.7	31.7	27.2	33.1	32.7	33.2	30.4	31.5	36.0	34.3	49.4	413.7
1980.....	28.2	35.6	34.2	39.6	41.7	41.9	38.3	40.5	43.2	46.9	40.0	53.3	483.4
1981.....	32.7	44.9	36.9	45.1	44.0	41.4	42.3	43.4	46.1	45.4	44.2	61.3	527.7
1982.....	48.7	60.9	44.5	48.6	50.9	43.0	46.6	57.3	55.2	54.5	54.0	82.8	647.0
Foreign:													
1978.....	54.5	56.0	75.7	73.4	92.0	96.1	88.3	98.2	106.5	115.3	113.0	96.5	1,065.5
1979.....	67.4	65.8	92.3	106.0	120.5	99.8	106.9	132.8	109.7	145.2	138.4	114.2	1,299.0
1980.....	95.4	80.2	102.4	112.3	122.8	92.9	127.5	122.1	133.6	185.7	122.0	134.0	1,430.9
1981.....	105.2	81.6	85.9	112.9	87.4	96.5	131.4	98.5	106.3	129.2	94.7	124.6	1,254.2
1982.....	80.8	75.1	76.7	98.2	66.2	77.0	100.9	96.9	109.4	119.4	91.9	104.2	1,096.7
Total shipments:													
1978.....	86.2	87.8	106.1	106.4	132.0	127.2	121.8	135.1	142.1	153.0	148.0	150.2	1,495.9
1979.....	101.9	105.5	124.0	133.2	153.6	132.5	140.1	163.2	141.2	181.2	172.7	163.6	1,712.7
1980.....	123.6	115.8	136.6	151.9	164.5	134.8	165.8	162.6	176.8	232.6	162.0	187.3	1,914.3
1981.....	137.9	126.5	122.8	158.0	131.4	137.9	173.7	141.9	152.4	174.6	138.9	185.9	1,781.9
1982.....	129.5	136.0	121.2	146.8	117.1	120.0	147.5	154.2	164.6	173.9	145.9	187.0	1,743.7

MAINLAND ANTHURIUM SHIPMENTS: Percent of flowers sold, by size, 1978-82

Year	Miniature	Small	Medium	Large	Extra-large
1978.....	19	28	31	21	1
1979.....	19	25	31	23	2
1980.....	22	26	30	21	1
1981.....	20	25	31	22	2
1982.....	19	25	31	23	2

ANTHURIUMS: Foreign shipments, by destination, 1978-82

Destination	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Australia:													
1978.....	1.4	2.7	3.5	3.3	5.5	4.4	4.4	4.8	4.6	2.9	3.6	4.4	45.5
1979.....	1.2	2.5	4.4	4.7	6.3	4.6	4.4	5.1	3.6	3.5	4.1	3.9	48.3
1980.....	2.3	2.2	2.3	3.9	6.2	3.9	5.1	4.2	4.0	4.5	2.9	6.3	47.8
1981.....	2.5	3.8	3.8	6.3	5.0	4.0	4.0	3.7	3.5	3.9	3.0	4.2	47.7
1982.....	2.0	3.8	4.1	7.1	3.0	3.0	4.2	3.7	3.1	2.0	1.7	2.5	40.2
Italy:													
1978.....	23.4	22.9	31.9	28.2	31.4	33.7	31.1	30.5	39.2	53.8	41.6	33.9	401.6
1979.....	27.1	23.6	33.9	33.2	34.9	37.0	36.3	44.4	39.9	64.4	53.6	46.4	474.7
1980.....	42.9	36.8	48.9	48.6	50.7	32.3	53.8	38.5	54.4	99.6	49.3	52.2	608.0
1981.....	49.2	37.3	37.8	46.8	25.2	24.9	33.8	28.7	39.3	64.1	33.2	40.1	460.4
1982.....	33.7	35.2	31.4	48.4	20.4	25.0	33.0	30.0	46.9	62.2	30.8	42.4	439.4
Japan:													
1978.....	3.7	4.8	8.8	9.7	12.4	14.0	15.2	16.6	16.3	16.2	16.7	15.5	149.9
1979.....	9.5	8.4	10.2	17.3	25.3	9.1	29.5	31.6	23.8	29.6	29.0	25.7	249.0
1980.....	14.2	8.9	16.1	15.5	12.7	20.4	37.9	49.5	42.4	41.1	34.3	36.3	325.3
1981.....	17.9	9.3	14.8	16.7	33.6	55.5	83.3	57.1	54.3	45.4	35.8	44.3	468.0
1982.....	19.6	7.7	17.2	14.5	27.6	35.4	53.7	52.0	44.8	40.5	41.1	30.6	384.7
Switzerland:													
1978.....	.2	1.4	3.2	2.9	3.1	2.1	.1	3.2	3.9	4.4	6.4	5.6	36.5
1979.....	6.1	6.9	11.3	9.6	8.6	4.2	.6	3.6	5.2	6.3	10.0	8.7	81.1
1980.....	11.0	11.3	9.5	12.8	10.4	8.7	6.7	8.5	8.9	13.5	11.2	14.9	127.4
1981.....	10.7	11.9	9.5	15.1	9.1	6.2	3.5	3.9	4.8	10.3	11.5	14.3	110.8
1982.....	12.1	14.8	12.3	13.3	7.1	5.9	2.6	5.2	9.0	8.5	11.1	15.5	117.4
West Germany:													
1978.....	24.1	21.8	26.8	27.6	37.9	40.5	37.4	42.1	42.1	37.7	43.5	36.5	418.0
1979.....	22.3	22.1	30.2	38.4	43.4	44.6	35.6	47.7	37.0	40.9	41.3	29.1	432.6
1980.....	24.5	20.5	25.3	29.3	41.0	26.0	23.0	21.0	23.4	24.7	21.4	19.8	299.9
1981.....	21.9	16.2	15.9	22.9	11.2	4.1	3.7	3.0	2.7	3.4	8.7	16.3	130.0
1982.....	10.8	9.4	7.6	11.3	5.4	5.1	3.9	2.5	2.3	2.1	1.3	3.1	64.8
All other:													
1978.....	1.7	2.4	1.5	1.7	1.7	1.4	.1	1.0	.4	.3	1.3	.5	14.0
1979.....	1.2	2.3	2.3	2.8	2.0	.3	.5	.4	.2	.5	.4	.4	13.3
1980.....	.5	.5	.3	2.2	1.8	1.6	1.0	.4	.5	2.3	2.9	4.5	18.5
1981.....	3.0	3.1	4.1	5.1	3.3	1.8	3.1	2.1	1.7	2.1	2.5	5.4	37.3
1982.....	2.6	4.2	4.1	3.6	2.7	2.6	3.5	3.5	3.3	4.1	5.9	10.1	50.2

DENDROBIUM ORCHIDS: Sales and value, 1978-82

STATE
 OAHU

Year	Lei flowers		Cut sprays		Potted plants				Total value
	Number sold	Value	Number sold	Value	In bud/bloom		Community pots		
					Number sold	Value	Number sold	Value	
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 dollars	1,000 dollars
STATE ¹									
1978..			31	136					²
1979..	2.8	73	44	192					²
1980..	6.6	175	70	336	227	1,003	42	186	1,700
1981..	8.8	244	83	431	173	569	79	301	1,545
1982..	6.2	172	76	416	157	612	26	155	1,355
OAHU									
1978..									²
1979..	2.8	73	28	132					²
1980..	6.4	169	54	274	72	259	42	182	884
1981..	8.5	235	65	354	74	266	71	286	1,141
1982..	5.5	147	58	325	83	270	25	148	890

¹ Hawaii, Kauai, and Maui combined with State total to avoid disclosure of individual operations.

² Prior to 1979 lei flower use was included in other lei flower figures and prior to 1980 potted dendrobiums were included in the total potted orchid figures as shown in the "Flowers and Nursery Products Annual Summary".

DENDROBIUM ORCHIDS: Production area, 1982 with 1983 intentions

Type of shade	Used in 1982			Intentions for 1983			
	Cut or lei flowers	Potted plants	Total	Cut or lei flowers	Potted plants	Total	Percent of 1982
1,000 square feet							
STATE ¹							
Glass or glass substitute	232	85	317				
Saran.....	936	407	1,343				
Natural shade and open field	78	53	131				
Total.....	1,246	545	1,791	1,529	461	1,990	111
OAHU							
Glass or glass substitute	154	21	175				
Saran.....	776	250	1,026				
Natural shade and open field	59	44	103				
Total.....	989	315	1,304	1,142	345	1,487	114

¹ Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Percent of cut sprays sold by quarter

Year	January-March	April-June	July-September	October-December
Percent				
1980....	14	23	34	29
1981....	12	23	37	28
1982....	11	24	38	27

POINSETTIAS: Number of growers, pots sold by size, and value, 1979-82

Year	Growers	Pots sold by size				Value
		4 inches and under	5-6½ inches	All other sizes ¹	Total	
		----- Number -----				Dollars
		STATE				
1979.....	24	23,000	² 97,000	--	120,000	323,000
1980.....	30	25,000	95,000	14,000	134,000	410,000
1981.....	25	20,000	109,500	7,000	136,500	430,000
1982.....	26	33,000	123,000	8,000	149,000	474,000
		OAHU				
1979.....	15	3	3	3	84,000	202,000
1980.....	17	3	3	3	90,000	241,000
1981.....	16	3	3	3	93,000	254,000
1982.....	18	3	3	3	105,000	316,000

-- = Not applicable.

¹ Includes hanging baskets.

² Includes all pots over 6 inches.

³ Not shown separately to avoid disclosure of individual operations.

POINSETTIAS: Percent of flowers grown by type of growing area

Year	Saran	Glass or glass substitute	Open field
1979.....	16	43	41
1980.....	7	49	44
1981.....	28	46	26
1982.....	18	53	29

POINSETTIAS: Percent of flowers grown by varieties

Year	C-1	V-10	V-14	Others
1979.....	41	23	11	25
1980.....	26	24	32	18
1981.....	36	33	10	21
1982.....	32	32	12	24

POINSETTIAS: 1983 intentions, with comparisons

Year	Grower intentions spring of year	Pots set ¹	Pots sold
Number			
1979.....	NA	133,000	120,000
1980.....	160,000	140,000	134,000
1981.....	152,000	161,000	136,500
1982.....	156,000	170,000	149,000
1983.....	176,000		

¹ Includes small pots eventually used for hanging baskets and counted as only one pot.

Out-of-State sales of flowers and nursery products, State of Hawaii, 1978-82

Commodity	1978	1979	1980	1981	1982
	1,000 dollars ¹				
Anthuriums, cut	5,010	5,696	6,592	6,237	6,370
Red Ginger	₂	₂	₂	₂	91
Protea	150	207	235	256	475
Cattleya Orchids	25	20	24	52	117
Cymbidium Orchids	375	170	71	98	175
Dendrobium Orchids, cut sprays ...	125	115	124	162	159
Vanda Orchids, ³ blossoms, lei, etc. .	265	104	75	125	₄
Potted orchid plants	600	1,020	1,282	1,319	968
Cut foliage.	255	344	519	400	410
Potted foliage plants	2,150	2,675	3,311	5,838	6,912
Unfinished potted foliage stock. ...	₂	₂	₂	₂	802
All other flowers and nursery products.	1,435	1,560	1,849	1,489	1,399
TOTAL	10,390	11,911	14,082	15,976	17,878

¹ Based on F. O. B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, lei, etc. purchased within the State and hand carried out.

² Not shown separately.

³ Hybrid and Miss Joaquim.

⁴ Included in "All Other" category to avoid individual disclosure.

DENDROBIUM ORCHIDS: Out-of-State sales, 1980-82

Year	Cut sprays		Potted plants ¹		Total value
	Number	Value	Number	Value	
	Dozens	Dollars	Number	----- Dollars -----	
1980....	18,560	123,800	79,980	380,390	504,190
1981....	28,600	162,400	68,600	264,000	426,400
1982....	30,800	158,600	51,100	245,500	404,100

¹ Includes community pots.

COFFEE: Number of farms, acreage, yield, marketings, price, and value, State of Hawaii, 1978-82¹

Year ²	Farms	Total acreage in crop	Acreage harvested	Yield per harvest acre	Marketings (parchment)	Farm price (parchment)	Value of sales
	Number	----- 1,000 acres -----		----- 1,000 pounds -----		Dollars per pound	1,000 dollars
1978-79...	750	2.3	1.9	0.9	1,680	1.26	2,117
1979-80...	700	2.1	1.8	1.2	2,190	1.43	3,132
1980-81...	650	1.9	1.7	0.9	1,440	1.60	2,304
1981-82...	625	1.8	1.7	1.3	2,210	2.00	4,420
1982-83...	620	2.0	1.9	0.6	1,050	2.10	2,205

¹ State production all on island of Hawaii.

² Harvesting normally begins in September and extends to the early part of the following year.

TARO: Number of farms, acreage, marketings, price, and value, by islands, 1978-82

Year	Farms	Acreage in crop ¹	Marketings	Farm price	Value of sales
	Number	Acres	1,000 pounds	Cents per pound	1,000 dollars
STATE					
1978...	132	450	7,680	13.4	1,029
1979...	121	405	6,640	16.4	1,089
1980...	122	320	6,400	20.0	1,280
1981...	123	340	6,100	21.4	1,305
1982...	117	340	6,460	22.4	1,447
HAWAII					
1978...	47	110	1,550	17.0	264
1979...	41	70	1,220	19.6	239
1980...	41	30	700	23.1	162
1981...	40	45	450	23.1	104
1982...	35	45	880	22.4	197
KAUAI					
1978...	52	210	4,920	12.5	615
1979...	49	205	4,330	14.8	641
1980...	50	210	4,550	19.0	865
1981...	50	210	4,450	21.0	934
1982...	49	210	4,360	22.3	972
MAUI/MOLOKAI/OAHU²					
1978...	33	130	1,210	12.4	150
1979...	31	130	1,090	19.1	209
1980...	31	80	1,150	22.0	253
1981...	33	85	1,200	22.3	267
1982...	33	85	1,220	22.8	278

¹ Survey conducted in November each year. Does not include acreage of varieties used primarily for leaf production.

² Maui/Molokai and Oahu combined to avoid disclosure of individual operations.

MACADAMIA NUTS: Number of farms, acreage, yield, marketings, price, and value, by islands, 1978-82

Crop year ¹	Farms	Acreage ²		Yield per acre (bearing)	Marketings (in shell) ³	Average moisture		Farm price	Value of sales
		In crop	Bearing			Entire crop	Purchases		
	Number	Acres		1,000 pounds		Percent		Cents per pound	1,000 dollars
STATE ⁴									
1978..	464	10,200	9,200	2.3	20,980	NA	NA	53.8	11,287
1979..	465	11,400	9,600	2.8	26,660	21.1	18.7	62.9	16,769
1980..	⁵ 475	⁵ 13,300	10,000	3.3	33,390	20.0	20.7	72.4	24,174
1981..	490	13,800	10,000	3.3	33,360	19.8	16.1	79.3	26,454
1982..	520	14,700	10,200	3.6	36,720	20.5	16.3	73.9	27,136
HAWAII									
1978..	459	10,120	9,180	2.3	20,890	NA	NA	53.8	11,239
1979..	460	11,115	9,600	2.8	26,570	NA	NA	62.9	16,712
1980..	⁵ 470	⁵ 12,110	9,950	3.2	33,270	NA	NA	72.4	24,071
1981..	485	12,600	9,950	3.3	33,240	NA	NA	79.3	26,355
1982..	515	13,480	10,150	3.6	36,600	NA	NA	73.9	27,047
KAUAI/MAUI/OAHU ⁶									
1978..	5	50	40	1.8	90	NA	NA	53.8	48
1979..	5	250	48	1.9	90	NA	NA	62.9	57
1980..	5	1,190	50	2.4	120	NA	NA	86.0	103
1981..	5	1,220	50	2.4	120	NA	NA	82.5	99
1982..	5	1,220	50	2.4	120	NA	NA	74.2	89

NA = Not available.

¹ Year ends June 30 of following year.

² At end of year.

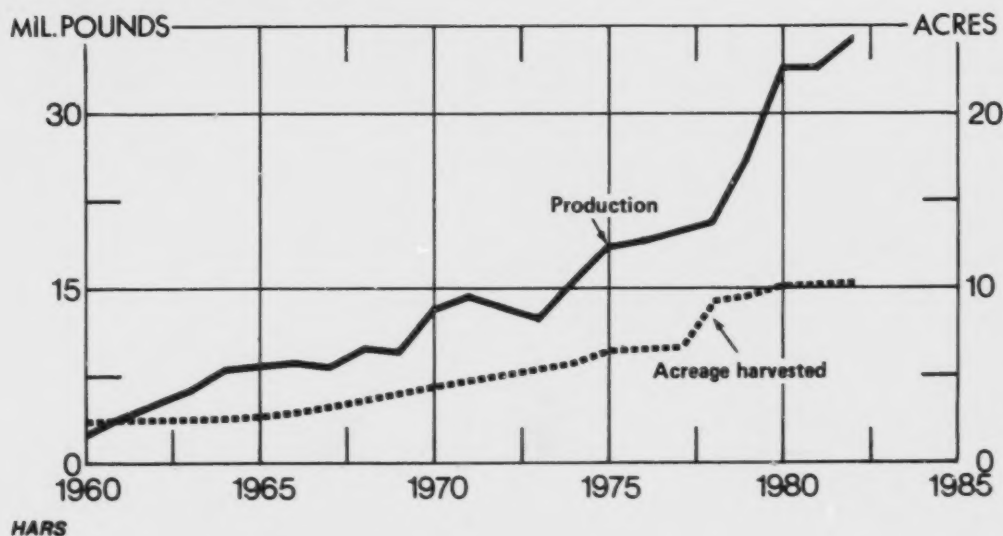
³ Includes home use.

⁴ Sum of island estimates may not add to State total due to rounding.

⁵ Revised.

⁶ Kauai and Maui combined with Oahu to avoid disclosure of individual operations.

MACADAMIA NUTS: Acreage and Production, State of Hawaii, 1960-82



**PINEAPPLES: Number of farms, acreage, production, disposition,
price, and value, State of Hawaii, 1978-82**

Year	Farms	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market	Processed ¹	Fresh market ²	
	Number	1,000 acres	1,000 tons			Dollars per ton		Thousand dollars
1978...	18	43.0	675	580	95	58	310	63,090
1979...	18	44.0	681	587	94	67	320	69,409
1980...	18	43.0	657	556	101	76	340	76,596
1981...	18	41.0	636	519	117	85	390	89,745
1982...	18	36.0	670	542	128	82	430	99,484

¹ Estimate to reflect value of fresh fruit delivered processing plant door.

² Estimate to reflect value at wholesale establishments for local sales and shipper dock for Mainland and foreign sales.

PINEAPPLES: Processor production, fresh sales, and value, State of Hawaii, 1978-82

Year	Processor production ¹				Fresh market sales		
	Canned fruit (24/2½- 45 lb. cases)	Canned juice (24/2½- 42.5 lb. cases)	Frozen concentrate (24/2½- 42.5 lb. cases)	Value ²	Quantity		Value ⁴
					Local	Shipped out-of- State ³	
	1,000 cases			Million dollars	1,000 tons		Thousand dollars
1978...	7,620	5,760	265	133.4	23.0	71.8	29,450
1979...	7,470	6,010	280	176.3	24.5	69.9	30,080
1980...	6,940	6,410	215	⁵ 192.2	27.3	73.7	34,340
1981...	6,830	6,320	200	172.0	25.8	91.1	45,590
1982...	NA	NA	NA	151.0	26.5	101.5	55,040

¹ Pineapple Growers Association of Hawaii (year beginning June 1 prior to 1979).

² Value of canned fruit and juices and byproducts shipped out-of-State and sold within State.

³ Market News Service, Hawaii Department of Agriculture. Includes all destinations.

⁴ Value FAS shipping point for outshipments, delivered wholesalers local sales.

⁵ Revised.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 1978-82

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	1,000 pounds												
1978.....	10,709	10,438	12,639	14,201	16,606	17,726	15,742	14,646	3,458	7,923	10,804	8,583	143,475
1979.....	9,489	12,772	15,104	13,164	16,801	13,818	12,718	11,475	5,285	8,968	11,109	7,971	138,674
1980.....	9,179	11,748	13,671	14,660	15,386	13,595	13,867	10,655	10,075	12,796	12,338	9,493	147,463
1981.....	13,290	12,411	14,706	18,021	16,906	18,978	22,599	10,053	12,512	15,036	13,931	13,662	182,102
1982.....	15,491	15,415	21,352	19,655	18,195	21,275	20,062	16,086	16,087	11,916	12,859	14,687	203,080

Source of outshipment data: Market News Service, Hawaii Department of Agriculture.

**PASSION FRUIT: Number of farms, acreage, quantity processed, price,
and value, State of Hawaii, 1978-82**

Year	Farms	Cultivated acreage ¹		Quantity processed ²	Average price	Value of sales ²
		In crop	Bearing			
	Number	Acres		1,000 pounds	Cents per pound	1,000 dollars
1978..	5	265	200	2,300	8.8	202
1979..	5	110	45	1,615	8.9	143
1980..	5	75	55	2,400	10.8	259
1981..	4	70	50	1,470	11.1	163
1982..	4	70	60	2,750	12.2	334

¹ At end of year.

² Includes wild and cultivated production.

**GUAVAS: Total processed, farm production, number of farms, acreage, price,
and value, State of Hawaii, 1978-82**

Year	Total delivered to processors ¹			Farm production					
	Quantity processed	Average price	Value of sales	Farms	Acreage in crop	Acreage harvested	Production	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	Number	Acres		1,000 pounds	Cents per pound	1,000 dollars
STATE									
1978....	5,530	8.3	459	97	795	445	3,790	8.9	337
1979....	6,450	9.2	593	105	905	565	4,500	9.4	424
1980....	9,850	11.0	1,084	108	975	615	7,520	11.5	865
1981....	7,290	10.8	787	97	935	620	6,520	11.0	717
1982....	7,130	9.9	704	91	885	585	6,730	9.9	664
HAWAII									
1978-79 ²									
1980....	6,700	11.2	750	93	495	325	5,420	11.7	634
1981....	3,560	11.0	392	87	450	330	3,530	11.0	388
1982....	2,120	9.5	201	81	410	225	2,110	9.5	200
KAUAI/MAUI/MOLOKAI/OAHU³									
1978-79 ²									
1980....	3,150	10.6	334	15	480	290	2,100	11.0	231
1981....	3,730	10.6	395	10	485	290	2,990	11.0	329
1982....	5,010	10.0	503	10	475	360	4,620	10.0	464

¹ Fruit allocated to island of production not island where processed. Includes wild and cultivated production.

² Not published separately because of disclosure of individual operations.

³ Kauai/Maui/Molokai/Oahu combined to avoid disclosure of individual operations.

GUAVAS: Quantity, price, and value, State of Hawaii, 1978-82

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total ¹	Average Price ²	Value
	1,000 pounds													Cents per lb.	1,000 dollars
1978.....	MONTHLY DATA UNAVAILABLE												5,530	8.3	459
1979.....	183	217	150	166	269	290	160	1,045	2,327	1,061	290	292	6,450	9.2	593
1980.....	325	204	263	756	408	449	963	2,091	2,333	1,558	341	159	9,850	11.0	1,084
1981.....	222	263	389	671	791	398	617	1,012	1,355	805	607	160	7,290	10.8	787
1982.....	487	1,011	161	465	210	385	572	989	1,176	862	483	333	7,130	9.9	704

¹ Sum of monthly estimates may not add to annual total due to rounding.

² Equivalent F. O. B. plant, island of production. Prices for guavas are averages for wild and cultivated fruit.

**BANANAS: Number of farms, acreage, yield, production, price, and value,
by islands, 1978-82**

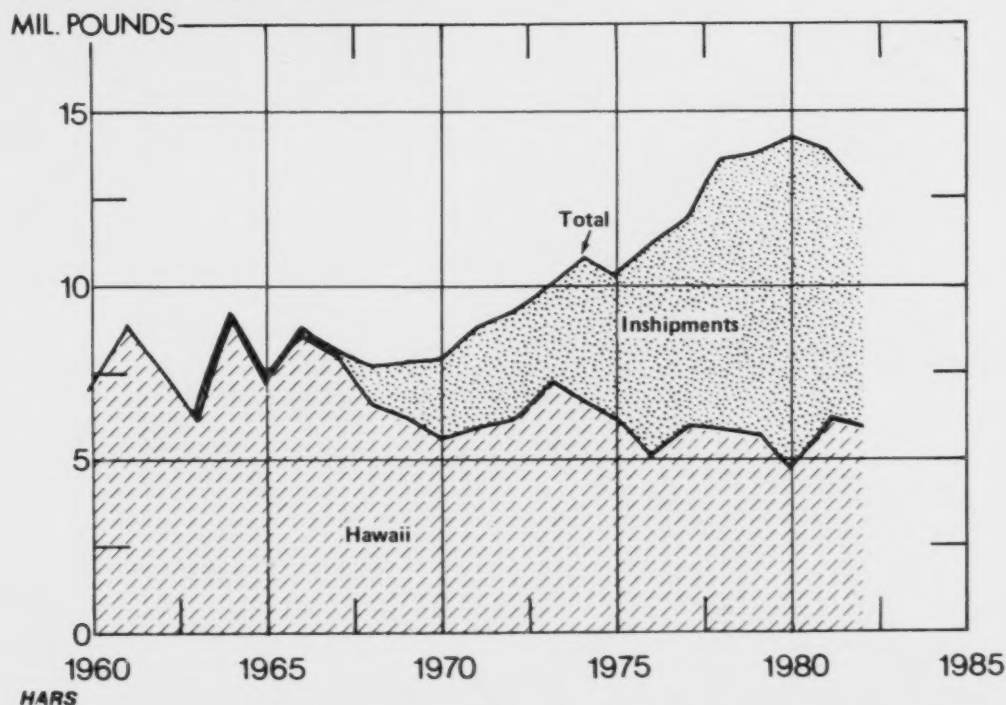
Year	Farms	Acreage		Yield per acre (harvested)	Production	Farm price	Value of sales
		In crop	Harvested				
	Number	----- Acres -----		----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE ¹							
1978..	147	640	580	9.8	5,700	18.5	1,055
1979..	148	690	630	8.8	5,550	20.5	1,138
1980..	159	730	580	7.9	4,600	23.9	1,099
1981..	152	760	650	9.2	6,000	25.7	1,542
1982..	179	940	720	8.0	5,750	28.6	1,645
HAWAII							
1978..	19	140	110	10.1	1,110	16.1	179
1979..	19	140	120	11.5	1,400	17.8	249
1980..	25	160	105	14.9	1,560	18.9	295
1981..	17	140	130	16.1	2,090	20.0	418
1982..	29	200	130	19.3	2,510	23.1	580
KAUAI							
1978..	21	60	45	10.4	470	15.0	70
1979..	23	60	45	12.1	600	17.2	103
1980..	24	70	45	17.1	770	21.6	166
1981..	26	75	60	16.7	1,000	23.4	234
1982..	32	110	50	19.1	954	29.1	278
MAUI/MOLOKAI							
1978..	12	20	20	6.0	120	18.4	22
1979..	13	30	20	4.0	120	21.2	25
1980..	12	30	25	7.6	190	24.7	47
1981..	15	55	35	5.7	200	24.8	50
1982..	18	90	70	3.4	241	26.8	65
OAHU							
1978..	95	420	405	9.9	4,000	19.6	784
1979..	93	460	445	6.1	3,430	22.2	761
1980..	98	470	405	5.1	2,080	28.4	591
1981..	94	490	425	6.4	2,710	31.0	840
1982..	100	540	470	4.4	2,045	35.3	722

¹ Island totals may not add to State totals due to rounding.

**BANANAS: Monthly production, total acreage in crop, and total acreage harvested,
by varieties, and price, State of Hawaii, 1978-82**

Year	Production													Acreage	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested
----- 1,000 pounds -----															
----- Acres -----															
BRAZILIAN (APPLE)															
1978.....	224	150	154	122	128	135	146	174	168	211	184	184	1,980	255	240
1979.....	203	153	156	151	133	131	136	154	172	162	159	140	1,850	305	290
1980.....	139	86	119	103	63	61	81	102	122	125	127	142	1,270	300	280
1981.....	127	156	193	146	104	106	116	118	142	164	130	128	1,630	340	305
1982.....	104	115	107	93	91	80	95	131	159	131	172	101	1,379	415	345
BLUEFIELDS (GROS MICHEL)															
1978.....	36	37	32	31	26	25	24	27	38	42	56	46	420	90	85
1979.....	32	28	20	23	26	23	32	38	50	65	55	48	440	75	65
1980.....	52	35	28	21	17	18	34	41	40	58	47	49	440	80	55
1981.....	44	39	36	40	41	44	49	56	60	60	54	57	580	60	50
1982.....	34	32	29	30	29	36	36	43	64	60	54	37	484	65	55
CAVENDISH (CHINESE, ROBUSTA, AND WILLIAMS HYBRID)															
1978.....	304	209	221	205	235	292	326	312	272	292	309	323	3,300	295	255
1979.....	322	247	240	210	236	255	302	318	287	301	270	272	3,260	310	275
1980.....	271	203	169	163	134	155	252	258	255	315	307	408	2,890	345	240
1981.....	428	351	323	220	252	283	288	277	292	373	349	354	3,790	355	290
1982.....	303	293	274	251	274	289	319	348	402	423	386	325	3,887	450	315
FARM PRICE FOR FRESH MARKET															
Cents per pound															
1978.....	17.1	18.2	18.9	18.7	20.1	19.9	18.7	18.1	18.3	18.4	18.2	18.5	18.5		
1979.....	19.5	19.9	20.1	20.1	20.2	20.4	20.0	20.1	21.6	21.2	21.7	21.5	20.5		
1980.....	22.3	24.1	25.9	24.9	24.4	24.5	24.0	24.4	23.8	23.4	23.8	22.9	23.9		
1981.....	23.8	25.2	26.4	26.7	25.2	26.4	26.3	26.7	25.9	25.5	25.4	25.5	25.7		
1982.....	25.2	26.5	27.0	26.9	26.2	26.2	28.1	30.5	30.3	30.0	31.6	30.5	28.6		

**MARKET SUPPLY: Fresh Market Bananas,
State of Hawaii, 1960-82**



HAWAIIAN PAPAYAS . . . PLANTING TO PROCESSING

Papayas (*Carica papaya*, L.) are grown on all the islands in the State but the major commercial growing area is the Puna district on the eastern end of Hawaii island. The tree can be grown in a variety of soil types with the most important requirement being that the soil have good drainage. Papayas are well suited to Hawaii's stable tropical climate and its porous volcanic soil. Solo is the dominant variety grown by farmers. The tree typically has a commercial life of 3 years; bearing fruits the last 2 years.

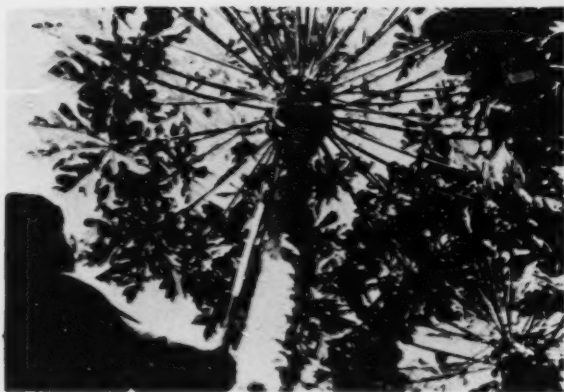
The following photographs help to illustrate various aspects of the industry from the crop itself to cultural practices and eventual utilization of the fruit.



1. The majority of Hawaii's papaya crop is directly seeded into the ground. Approximately 20 seeds are planted in each hole. Four to six weeks after germination the seedlings are thinned so that only 3 or 4 of the healthiest seedlings are left.

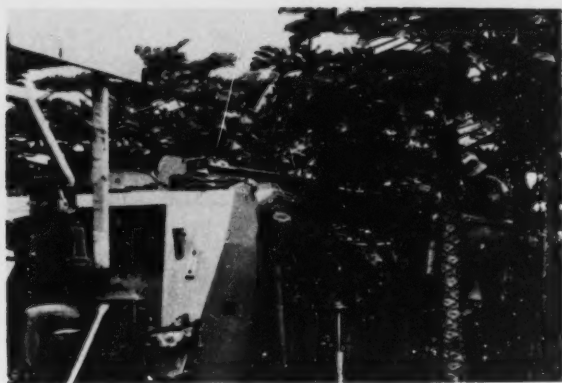


2. A second and final thinning occurs at 6 months of age or as soon as flowers appear and the tree is determined to be hermaphroditic. Usually only one tree is left to grow in each hole.



3. Throughout the life of the crop, fertilization, disease, insect, and weed control programs are necessary. Most of these cultural practices are mechanized. Trees are therefore planted with enough space between rows to allow the passage of tractors.

4. Harvesting of fruits begin when the tree is about a year old. At first the mature fruits are close enough to the ground so they can be hand-picked. As the tree ages, the fruit grow out-of-reach and a harvesting aid must be used. Most farmers use a modified plumber's helper attached to a long pole to knock fruits off the tree.



5. A recent development in harvesting is the use of mechanized equipment. Such methods are thought to reduce harvesting losses due to damaged fruits. The hydraulically operated pickers allow harvest to a height of about 20 feet.

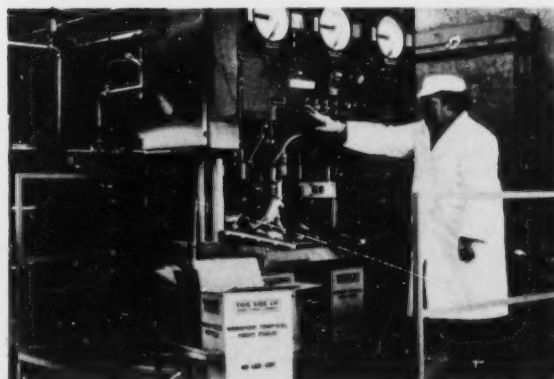


7. Fruits are then graded, packed by size, and inspected for the fresh market.

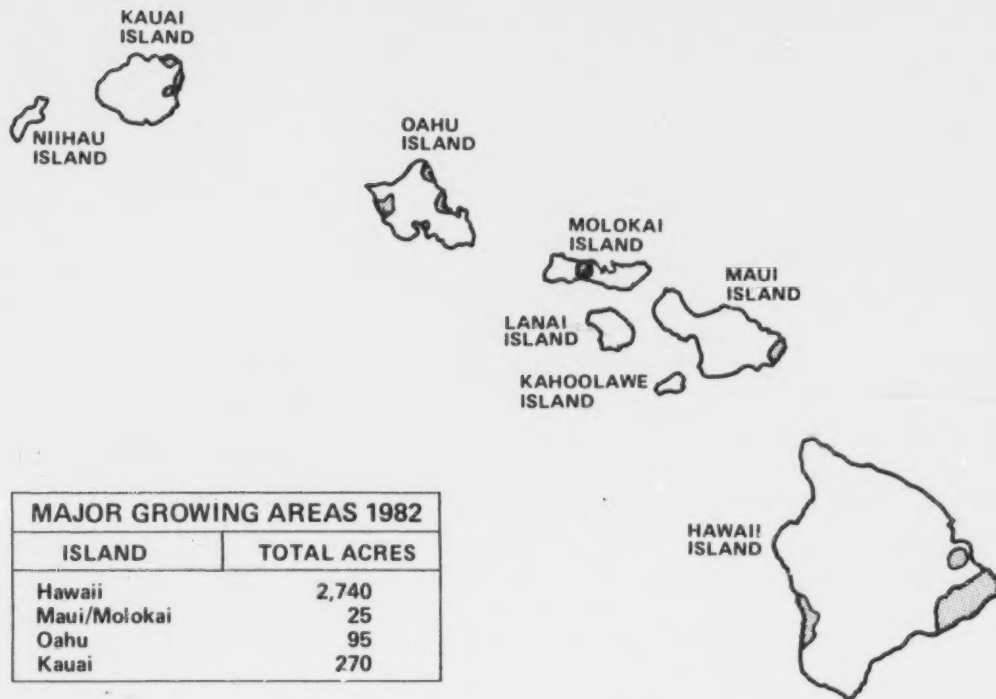
8. Fruits not used for fresh market are processed into juice, nectar base, or puree. Shown at right is Amfac Tropical Product's new aseptic processing plant that packages puree into bulk packages that do not require refrigeration.



6. Harvested fruits are brought to the packinghouse where they undergo post-harvest treatment. First they are dipped in hot water for approximately 20 minutes to destroy diseases. They are then cooled with water (above) for 20 minutes. Finally the fruits are either vapor heated or fumigated to destroy fruit fly larvae.



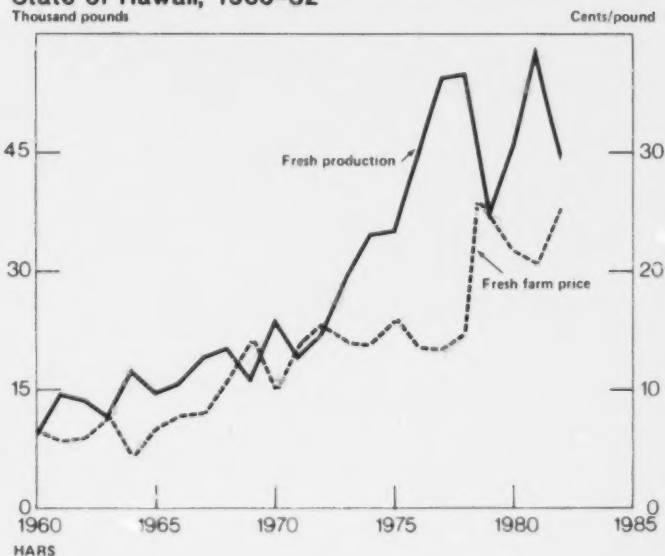
THE PAPAYA INDUSTRY IN HAWAII



WEATHER DAMPENS 1982 CROP

Hawaii fresh papaya production totaled 44.8 million pounds in 1982, down 23 percent from 1981 as poor weather conditions reduced yields on the major growing islands of Kauai and Hawaii. Almost constant rainy, overcast weather hampered fruit development and farm activity. Disease became especially prevalent on Kauai where a major outbreak of *Phytophthora* blight destroyed approximately two-thirds of its papaya trees by late summer. Most of the remaining trees and new plantings on Kauai were then destroyed by Hurricane Iwa. Production from Kauai is not expected to reach pre-1982 levels until late 1983. As fresh production fell, the average farm price for all types of sales rose to 21.8 cents per pound, second only to 1979's farm price of 23.2 cents per pound. Total value of production for 1982 at \$11.5 million was down 7 percent from the previous year, the first decline since 1964.

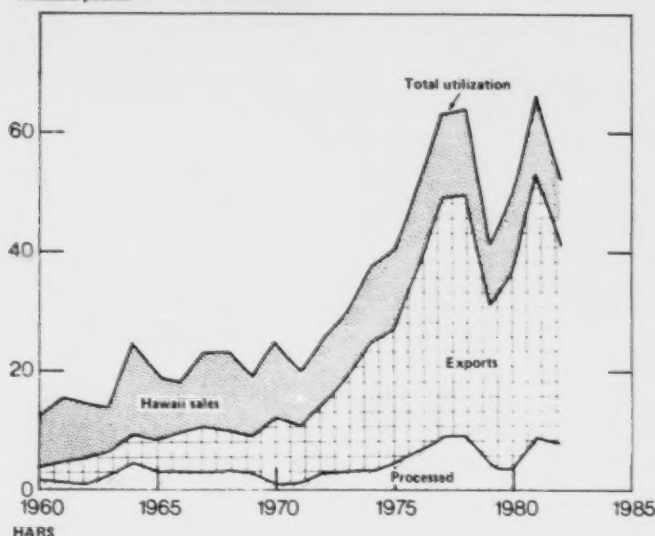
PAPAYAS: Fresh Production and Farm Price, State of Hawaii, 1960-82



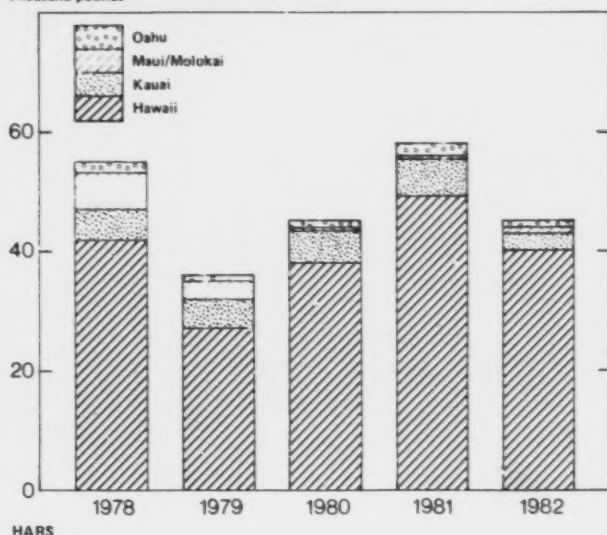
EXPORT MARKET STILL BIGGEST

Outshipments of fresh papayas from Hawaii fell 26 percent in 1982 to 33.3 million pounds but still accounted for 63 percent of total utilized production. Since the early seventies exports of papayas, mainly to the U. S. mainland and Japan, have dominated all other papaya markets. Sales within the State have stayed relatively stable over the years despite an increasing population base. Processed production grew dramatically in the seventies dropping only in 1979 with the departure of a large processor.

PAPAYAS: Total Utilized Production, State of Hawaii, 1960-82
Thousand pounds



PAPAYAS: Fresh Production, State of Hawaii, 1978-82
Thousand pounds



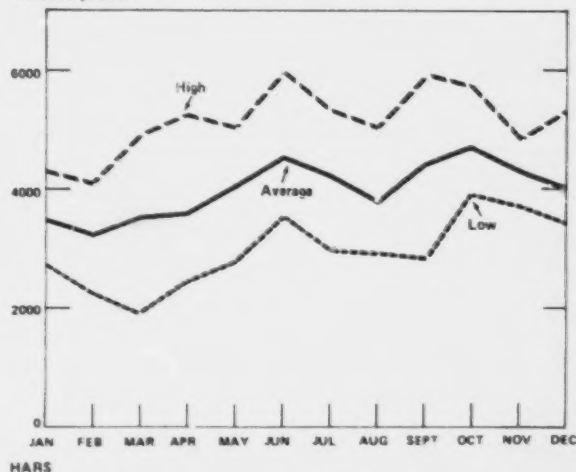
HAWAII ISLAND IS MAJOR PRODUCER

Hawaii island continues to be the largest producer of papayas in the State with 1982 fresh production estimated at 39.9 million pounds, or 89 percent of the total. Abundant land suitable for papayas and a favorable climate have contributed to Hawaii island's dominant position in the industry. Kauai had been steadily increasing fresh output since the late seventies but disease and Hurricane Iwa reduced fresh output to 3.2 million pounds in 1982. Kauai lost over 90 percent of its crop in 1982 but new plantings are now making excellent progress. Recovery may be complete by early 1984. Maui once accounted for over 10 percent of the State's total fresh production. However, with the departure of the largest grower there in 1979 Maui now accounts for less than one percent of the State's fresh production.

PRODUCTION FORECASTS BENEFIT THE INDUSTRY

Papayas are harvested year-round but generally follow a seasonal pattern with peak production periods during summer and late fall. However, the variability in monthly production between years can be large with a difference of one million pounds, a common occurrence. Such variability in production can cause serious marketing problems. An objective yield survey, whereby sample fruit set counts and other characteristics are used to estimate total production 5 to 6 months in advance, provides useful forecasts of fresh papaya production.

PAPAYAS: Average Fresh Production and Range, State of Hawaii, 1978-82
Thousand pounds



PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by islands, 1978-82¹

Year	Farms ²	Acreage harvested ²	Yield per acre ³	Utilized production	Utilization		Price per pound			Value of utilized production
					Fresh	Processed	Fresh	Processed ⁴	All	
	Number	Acres	----- 1,000 pounds -----		----- Cents -----					1,000 dollars
STATE										
1978...	183	2,190	29.2	64,000	54,624	9,376	14.4	4.6	13.0	8,304
1979...	194	2,210	18.6	41,015	36,446	4,569	25.6	4.0	23.2	9,515
1980...	197	1,950	25.1	48,916	45,360	3,556	21.7	3.4	20.4	⁵ 9,964
1981...	211	2,110	31.5	66,390	58,170	8,220	20.8	3.1	18.7	12,413
1982...	214	2,170	24.3	52,750	44,770	7,980	25.1	3.1	21.8	11,484
HAWAII										
1978...	108	1,740	25.2	43,860	41,656	2,204	13.6		13.1	5,738
1979...	112	1,820	16.8	30,565	27,129	3,436	24.2		21.9	6,680
1980...	108	1,665	24.5	41,255	37,947	3,308	21.1		19.7	8,127
1981...	116	1,785	32.1	57,320	49,135	8,185	20.4		18.7	10,278
1982...	123	1,950	24.6	47,900	39,940	7,960	24.8		21.2	10,152
KAUAI										
1978...	28	135	39.0	5,263	5,117	146	⁶ 15.4		⁶ 11.4	⁶ 2,094
1979...	32	160	35.4	5,672	5,413	259	⁶ 27.8		⁶ 25.4	⁶ 2,422
1980...	37	200	30.5	6,096	5,967	129	⁶ 20.8		⁶ 20.5	⁶ 1,286
1981...	42	245	29.4	7,204	7,169	35	⁶ 21.2		⁶ 21.5	⁶ 1,567
1982...	42	130	24.8	3,220	3,200	20	⁶ 23.8		⁶ 23.7	⁶ 889
MAUI/MOLOKAI										
1978...	5	260	50.6	13,167	6,152	7,015	⁶		⁶	⁶
1979...	7	165	23.4	3,866	3,035	831	⁶		⁶	⁶
1980...	4	10	17.6	176	176	0	⁶		⁶	⁶
1981...	4	10	21.3	213	213	0	⁶		⁶	⁶
1982...	4	20	26.5	530	530	0	⁶		⁶	⁶
OAHU										
1978...	42	55	31.1	1,710	1,699	11	27.8		27.6	472
1979...	43	65	14.0	912	869	43	46.7		44.7	408
1980...	48	75	18.5	1,389	1,270	119	44.7		41.1	571
1981...	49	70	23.6	1,653	1,653	0	33.8		33.8	559
1982...	45	70	15.7	1,100	1,100	0	39.7		39.7	437

¹ Sum of island estimates may not add to State total due to rounding.

² Average of monthly estimates.

³ Utilized production divided by acreage harvested.

⁴ Island data not shown separately to avoid disclosure of individual operations.

⁵ Revised estimate.

⁶ Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

PAPAYAS: Acreage, production, price, and outshipments, State of Hawaii, 1978-82

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
Acreage harvested - Acres ¹													
1978..	2,280	2,270	2,210	2,220	2,175	2,155	2,180	2,185	2,145	2,205	2,135	2,145	2,190
1979..	2,265	2,335	2,360	2,340	2,305	2,370	2,390	2,265	2,245	1,910	1,885	1,885	2,210
1980..	1,785	1,915	1,935	2,005	2,040	2,050	1,905	1,930	1,930	1,945	1,985	2,005	1,960
1981..	2,105	1,975	1,960	2,040	2,045	2,060	2,150	2,140	2,150	2,240	2,235	2,235	2,110
1982..	2,255	2,280	2,285	2,170	2,160	2,125	2,070	2,130	2,115	2,130	2,140	2,190	2,170
Utilization (fresh and processed) - 1,000 pounds													
1978..	4,256	3,804	4,316	3,971	5,546	6,896	6,664	6,279	6,083	6,825	5,312	4,048	64,000
1979..	3,715	2,493	2,320	2,561	2,796	3,666	3,166	3,268	3,514	4,761	4,732	4,023	41,015
1980..	3,389	2,385	2,116	3,043	4,278	4,508	4,527	3,722	5,218	5,665	4,555	5,510	48,916
1981..	4,626	4,532	5,607	5,853	5,671	6,893	5,848	5,075	6,405	5,973	5,335	4,572	66,390
1982..	4,151	4,369	4,852	4,397	4,114	4,346	4,320	4,049	4,005	4,615	4,499	5,033	52,750
Farm price for fresh market sales within State - Cents per pound													
1978..	22.8	27.4	27.6	27.4	25.7	19.2	18.6	17.6	16.1	15.8	15.8	19.3	21.0
1979..	26.2	30.7	37.8	36.2	31.6	31.4	25.9	35.6	34.7	35.4	28.9	28.4	31.8
1980..	34.0	39.0	43.4	44.7	36.8	31.3	28.8	23.8	22.4	22.6	21.8	21.4	29.3
1981..	20.9	25.8	28.4	26.8	25.9	25.0	20.6	25.4	26.4	19.2	16.6	21.4	23.5
1982..	27.2	30.7	25.5	26.4	31.4	41.2	40.2	29.6	30.1	25.2	23.2	22.9	29.1
Outshipments of fresh papayas - 1,000 pounds													
1978..	2,597	2,515	2,846	2,328	3,510	4,339	3,736	3,800	3,769	4,214	3,455	2,666	39,775
1979..	2,459	1,594	1,335	1,538	1,761	2,570	2,108	2,145	2,081	2,996	3,047	2,623	26,257
1980..	1,949	1,424	1,329	1,999	3,019	2,950	3,012	2,545	3,678	4,098	3,301	4,031	33,335
1981..	3,151	2,986	3,662	4,023	3,907	4,729	4,364	3,512	4,798	3,681	3,640	2,694	45,147
1982..	2,554	2,555	3,410	3,153	2,723	2,820	2,785	2,356	2,525	2,856	2,670	2,903	33,310
Farm price for fresh market sales (to the Mainland and foreign countries)													
Cents per pound													
1978..	14.0	16.7	15.5	18.7	19.2	13.5	9.7	7.8	8.0	6.3	8.5	12.0	12.0
1979..	16.3	21.4	34.0	33.5	36.3	27.5	19.3	28.5	21.2	21.4	15.1	18.0	23.2
1980..	21.7	29.6	34.7	35.4	21.8	22.1	17.3	19.8	15.2	11.0	14.3	12.4	19.0
1981..	16.5	24.9	24.0	22.9	23.2	24.6	21.0	23.8	19.5	11.2	12.7	13.6	20.1
1982..	18.2	22.0	21.3	23.2	29.3	36.4	29.6	23.6	24.2	18.6	21.4	17.4	23.7
Processed papayas - 1,000 pounds													
1978..	532	136	315	417	570	1,355	1,633	1,244	1,126	1,090	583	375	9,376
1979..	224	120	82	145	98	214	271	392	752	830	848	593	4,569
1980..	659	222	195	233	188	496	511	225	209	364	51	203	3,556
1981..	368	457	687	643	721	932	500	775	551	1,051	535	1,000	8,220
1982..	772	653	337	404	580	696	621	765	599	738	845	970	7,980

¹ Total is average of monthly data.

AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Farms	Acreage ¹		Yield per acre (bearing)	Production	Farm price	Value of sales
		In crop	Bearing				
	Number	----- Acres -----		----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	127	330	160	5.8	920	28.6	263
1979...	142	340	165	7.7	1,270	26.6	338
1980...	145	350	200	7.6	1,510	24.5	370
1981...	155	370	200	6.0	1,200	26.4	317
1982...	170	400	240	6.7	1,600	22.5	360

¹ At end of year.

ORANGES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Farms	Acreage bearing ¹	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	1,000 pounds		Cents per pound	1,000 dollars
1978...	45	42	5.2	220	17.3	38
1979...	32	37	5.4	200	18.1	36
1980...	28	30	4.7	140	18.1	25
1981...	24	98	2.2	220	21.8	48
1982...	23	120	2.9	350	25.0	88

¹ At end of year.

TANGERINES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Farms	Acreage bearing ¹	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	37	36	4.7	170	23.8	40
1979...	29	30	5.0	150	22.9	34
1980...	22	28	3.6	100	23.3	23
1981...	20	28	3.6	100	29.3	29
1982...	20	25	4.4	110	26.0	29

¹ At end of year.

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1978-82¹

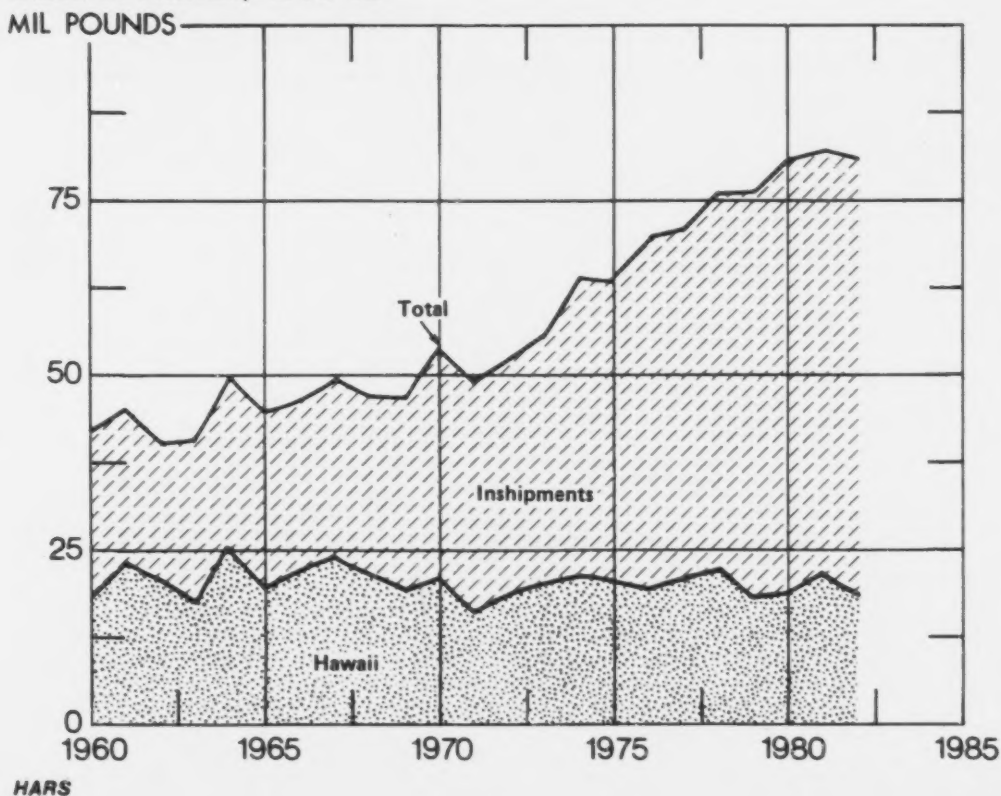
Commodity		1978	1979	1980	1981	1982
		1,000 pounds				
Apples:	Inshipments.....	11,002	13,044	12,700	12,878	11,977
Avocados:	Inshipments.....	478	379	283	559	439
	Hawaii.....	920	1,270	1,510	1,200	1,600
Bananas:	Inshipments.....	7,792	8,205	9,528	7,910	6,916
	Hawaii.....	5,700	5,550	4,600	6,000	5,750
Grapefruit:	Inshipments.....	2,851	2,829	3,145	2,757	2,997
Grapes:	Inshipments.....	3,125	4,054	4,208	4,459	5,599
Lemons:	Inshipments.....	3,028	3,025	2,771	3,065	3,030
Nectarines:	Inshipments.....	1,112	1,732	1,744	1,739	1,893
Oranges:	Inshipments.....	14,744	15,089	18,987	17,748	18,096
	Hawaii.....	220	200	140	220	350
Papayas:	Hawaii.....	14,849	10,189	12,025	13,023	11,460
Pears:	Inshipments.....	2,703	2,777	2,581	3,072	3,741
Tangerines:	Inshipments.....	1,029	1,125	1,169	762	592
	Hawaii.....	170	150	100	100	110
All other fruits:	Inshipments.....	4,079	4,839	4,376	4,911	4,373
	Hawaii.....	280	350	285	340	370
Unspecified fruits:	Inshipments.....	² 1,862	² 1,197	² 434	² 1,696	² 2,072
Total:	Inshipments.....	53,805	58,295	61,926	61,556	61,725
	Hawaii.....	22,139	17,709	18,660	20,883	19,640
	All.....	75,944	76,004	80,586	82,439	81,365

¹ Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State.

² Proration of shipments of unspecified mixed fruits destined for outlying islands.

Source of Inshipment data: Market News Service, Hawaii Department of Agriculture.

**MARKET SUPPLY: Fresh Market Fruits,
State of Hawaii, 1960-82**



MARKET SUPPLY: Fresh market melons, State of Hawaii, 1978-82

Commodity		1978	1979	1980	1981	1982
		1,000 pounds				
Cantaloupes:	Inshipments.....	3,824	4,355	3,563	3,703	4,161
	Hawaii.....	--	--	--	--	¹
Honeydew melons:	Inshipments.....	2,375	3,043	2,550	2,727	3,048
	Hawaii.....	--	--	--	--	¹
Watermelons:	Inshipments.....	3,704	5,773	5,362	5,393	7,960
	Hawaii.....	1,870	1,130	1,350	1,610	2,200
Other melons:	Inshipments.....	194	380	324	351	416
	Hawaii.....	--	--	--	--	25
Unspecified melons:	Inshipments.....	409	263	95	371	² 453
Total:	Inshipments.....	10,506	13,814	11,894	12,545	16,038
	Hawaii.....	1,870	1,130	1,350	1,610	2,225
	All.....	12,376	14,944	13,244	14,155	18,263

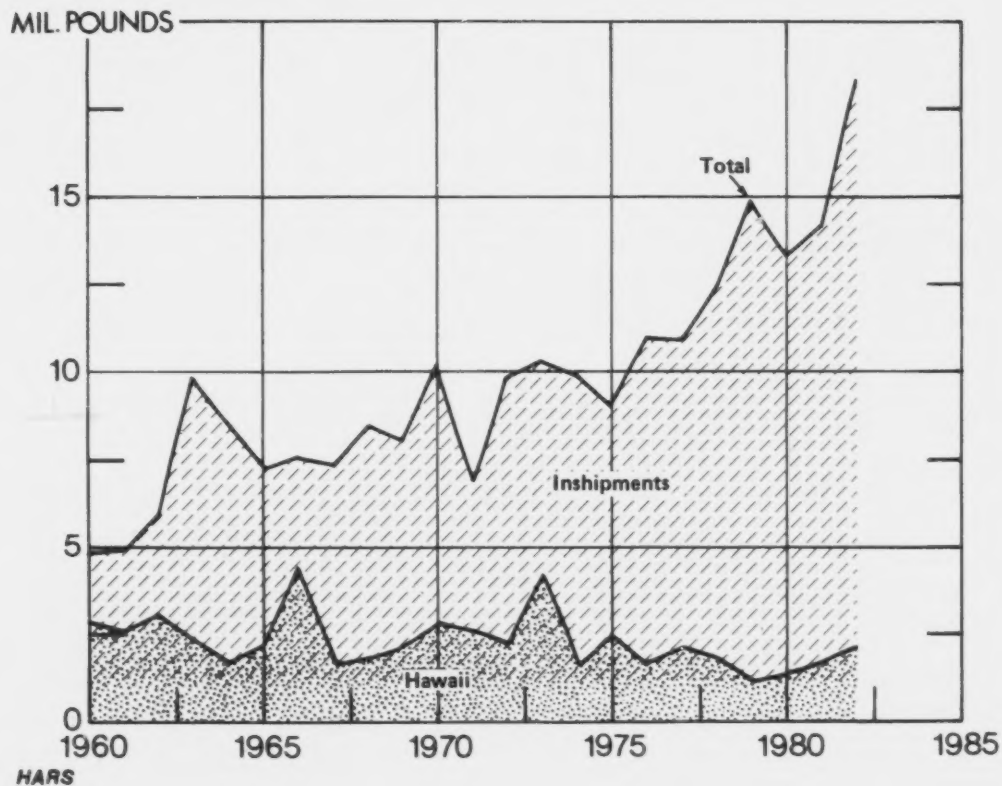
-- = Negligible.

¹ Data included with other melons.

² Proration of shipments of unspecified mixed melons destined for outlying islands.

Source of Inshipment data: Market News Service, Hawaii Department of Agriculture.

**MARKET SUPPLY: Fresh Market Melons,
State of Hawaii, 1960-82**



MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1978-82

Commodity		1978	1979	1980	1981	1982
		1,000 pounds				
Beans, snap:	Inshipments.....	275	275	292	183	235
	Hawaii.....	1,300	1,400	1,100	1,300	995
Bittermeion:	Inshipments.....	0	8	1	1	7
	Hawaii.....	330	320	220	290	185
Broccoli:	Inshipments.....	2,529	2,812	3,092	3,130	3,694
	Hawaii.....	270	360	370	500	570
Burdock:	Inshipments.....	0	0	0	0	0
	Hawaii.....	495	580	570	640	560
Cabbage, Chinese:	Inshipments.....	259	613	360	300	193
	Hawaii ¹	6,050	5,700	6,060	5,830	7,050
Cabbage, head:	Inshipments.....	358	627	646	1,035	596
	Hawaii.....	13,800	13,500	13,600	12,800	13,800
Cabbage, mustard:	Inshipments.....	14	42	64	104	76
	Hawaii.....	1,470	1,250	1,330	1,520	1,170
Carrots:	Inshipments.....	6,878	7,354	7,716	7,571	8,301
	Hawaii.....	180	290	310	230	190
Cauliflower:	Inshipments.....	587	817	961	1,058	1,190
	Hawaii.....	610	490	420	450	350
Celery:	Inshipments.....	4,331	5,047	4,852	4,852	4,840
	Hawaii.....	2,765	2,650	2,880	2,820	3,150
Corn, sweet:	Inshipments.....	0	0	0	16	369
	Hawaii.....	1,590	1,510	950	1,050	560
Cucumbers:	Inshipments.....	1,241	1,399	1,360	1,544	2,094
	Hawaii.....	4,300	4,700	4,600	5,000	4,350
Daikon:	Inshipments.....	2	0	0	0	6
	Hawaii ¹	2,155	2,250	2,340	1,990	2,140
Dasheen:	Inshipments.....	0	0	0	12	6
	Hawaii.....	240	250	340	200	330
Eggplant:	Inshipments.....	126	193	143	81	263
	Hawaii.....	1,740	1,570	1,540	1,580	1,130
Ginger root:	Inshipments.....	183	170	376	480	490
	Hawaii.....	1,340	1,860	1,610	2,860	3,630
Lettuce:	Inshipments.....	12,204	14,112	13,687	12,584	13,956
	Hawaii.....	10,300	9,400	9,900	10,200	9,400
Lotus root:	Hawaii.....	190	210	190	180	200
Onions, dry:	Inshipments.....	12,383	12,753	13,020	12,186	14,051
	Hawaii.....	1,500	1,190	1,150	1,980	1,350
Onions, green:	Inshipments.....	400	520	585	509	564
	Hawaii.....	980	1,135	900	740	800
Parsley, American:	Inshipments.....	84	44	17	20	136
	Hawaii.....	210	170	250	280	260
Peas, Chinese:	Inshipments.....	26	83	189	156	199
	Hawaii.....	85	100	70	70	50
Peppers, green:	Inshipments.....	1,595	1,757	1,913	1,683	2,020
	Hawaii.....	820	890	620	760	820
Potatoes:	Inshipments ²	34,464	36,136	36,527	36,648	39,292
	Hawaii.....	--	--	--	--	--
Pumpkins:	Inshipments.....	308	189	227	295	342
	Hawaii.....	340	300	295	330	310
Radish:	Inshipments.....	11	8	1	7	22
	Hawaii.....	230	360	295	240	270

See footnotes at end of table.

Continued

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1978-82 - Continued

Commodity		1978	1979	1980	1981	1982
		1,000 pounds				
Romaine:	Inshipments.....	486	714	746	617	965
	Hawaii.....	2,345	2,270	2,170	2,320	2,130
Squash, Italian:	Inshipments.....	855	1,198	1,221	1,203	1,685
	Hawaii.....	350	220	300	540	390
Squash, Oriental:	Inshipments.....	31	92	4	14	70
	Hawaii.....	750	780	730	770	445
Sweetpotatoes:	Inshipments.....	533	601	767	604	616
	Hawaii.....	1,520	1,740	1,300	1,250	1,530
Taro:	Inshipments.....	226	586	375	905	980
	Hawaii.....	694	415	520	215	307
Tomatoes:	Inshipments.....	7,887	8,442	8,114	6,744	8,454
	Hawaii.....	7,000	6,200	7,700	8,300	7,800
Watercress:	Inshipments.....	1	0	0	177	130
	Hawaii.....	1,545	1,670	1,420	1,130	850
All other vegetables:	Inshipments.....	5,508	6,856	7,331	7,101	7,573
	Hawaii.....	1,530	1,855	1,960	2,010	2,060
Unspecified vegetables:	Inshipments.....	³ 3,560	³ 2,293	³ 827	³ 3,232	³ 3,951
Total:	Inshipments.....	97,345	105,741	105,414	105,052	117,366
	Hawaii.....	69,024	67,585	68,010	70,375	69,132
	All.....	166,369	173,326	173,424	175,427	186,498

-- = Negligible.

¹ Fresh market only.

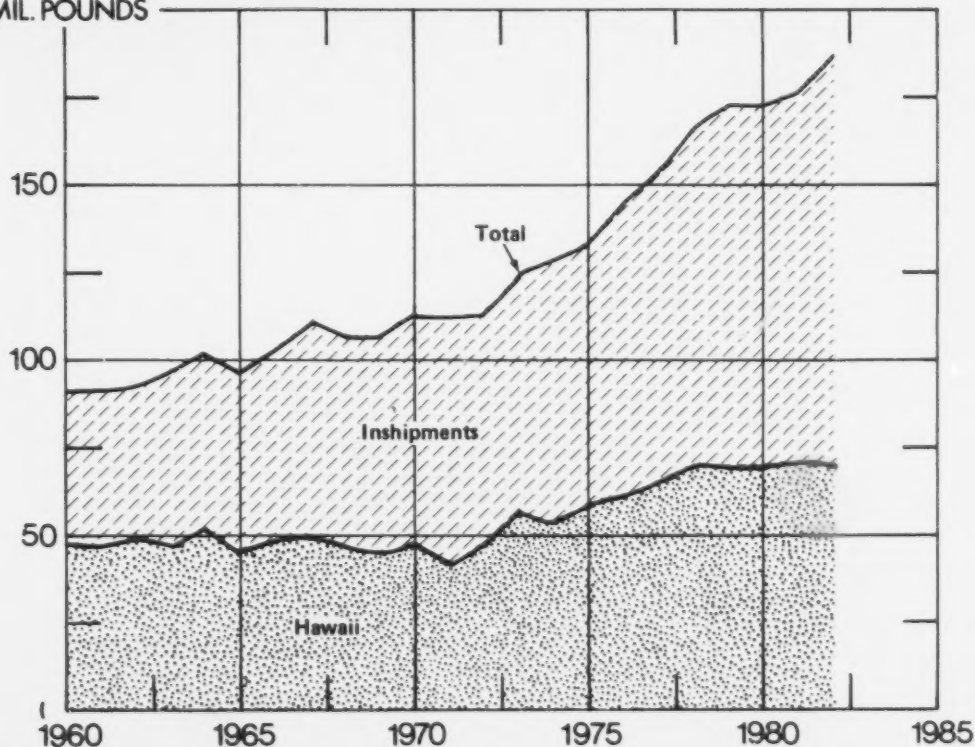
² For processing and fresh market. (Potato production for Hawaii included with all other vegetables for Hawaii to avoid disclosure.)

³ Proration of shipments of unspecified mixed vegetables destined for outlying islands.

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

**MARKET SUPPLY: Fresh Market Vegetables,
State of Hawaii, 1960-82**

MIL. POUNDS



SNAP BEANS: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	200	6.5	1,300	57.5	748
1979...	210	6.5	1,400	66.9	937
1980...	130	8.5	1,100	73.8	812
1981...	130	10.0	1,300	76.1	989
1982...	130	7.7	995	80.0	796
HAWAII/KAUAI²					
1978...	25	9.6	240	51.3	123
1979...	30	7.7	230	54.6	126
1980...	20	10.5	210	61.1	128
1981...	20	11.5	230	64.8	149
1982...	20	9.0	180	73.0	131
MAUI/MOLOKAI					
1978...	100	6.0	600	56.4	338
1979...	90	6.6	590	66.0	389
1980...	85	7.4	630	78.4	494
1981...	80	8.2	660	79.0	521
1982...	80	7.0	560	79.3	444
OAHU					
1978...	75	6.1	460	62.3	287
1979...	90	6.4	580	72.8	422
1980...	25	10.4	260	72.9	190
1981...	30	13.7	410	77.8	319
1982...	30	8.5	255	86.5	221

¹ Sum of island estimates may not add to State total due to rounding.

² Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production ²					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	21	17	10	15	15	127	74	46	87	63	52.1	68.6	76.8	85.9	89.5
February.....	19	17	12	15	14	135	70	71	88	73	49.5	73.1	73.8	87.0	91.7
March.....	22	19	9	16	12	127	130	90	101	77	48.5	68.8	74.6	90.4	89.7
April.....	24	22	14	18	17	115	144	93	135	119	57.1	61.8	74.3	69.1	87.1
May.....	25	26	14	20	17	126	151	114	112	107	57.7	57.0	72.0	75.8	76.8
June.....	24	25	13	20	19	102	118	100	101	115	54.7	62.1	74.5	64.1	76.4
July.....	22	26	13	19	18	98	141	104	116	107	59.8	71.0	73.9	71.3	69.4
August.....	21	22	14	17	16	107	141	117	117	77	62.2	62.5	72.8	72.8	71.8
September.....	20	24	13	17	15	84	152	88	111	77	62.6	66.3	71.6	69.0	75.4
October.....	20	20	12	15	15	112	107	96	118	77	63.7	67.7	72.1	75.0	75.5
November.....	22	18	15	14	16	81	98	102	116	58	67.8	70.1	75.0	76.9	77.7
December.....	20	17	13	13	14	86	85	79	98	45	64.3	88.0	76.2	83.3	86.5
Total or average...	200	210	130	130	130	1,300	1,400	1,100	1,300	995	57.5	66.9	73.8	76.1	80.0

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

² Sum of monthly estimates may not add to annual total due to rounding.

BROCCOLI: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	26	10.4	270	31.7	86
1979...	40	9.0	360	32.8	118
1980...	40	9.2	370	33.2	123
1981...	45	11.1	500	33.3	167
1982...	52	11.0	570	35.5	202

BURDOCK: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	31	16.0	495	43.3	214
1979...	35	16.6	580	49.5	287
1980...	35	16.3	570	56.9	324
1981...	35	18.3	640	57.2	366
1982...	30	18.7	560	53.7	301

CARROTS: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	14	12.9	180	17.9	32
1979...	25	11.6	290	19.7	57
1980...	25	12.4	310	19.9	62
1981...	15	15.3	230	23.4	54
1982...	13	14.6	190	23.9	45

CAULIFLOWER: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	42	14.5	610	27.0	165
1979...	33	14.8	490	27.6	135
1980...	30	14.0	420	30.0	126
1981...	30	15.0	450	27.2	122
1982...	25	14.0	350	30.5	107

CHINESE CABBAGE: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	270	25.1	6,770	12.1	819
1979...	335	19.7	6,600	15.2	1,003
1980...	350	19.7	6,900	14.5	1,001
1981...	310	21.6	6,700	14.5	972
1982...	330	23.7	7,820	14.4	1,126
HAWAII					
1978...	225	26.6	5,975	12.1	723
1979...	290	19.9	5,760	15.1	870
1980...	315	20.0	6,300	14.3	901
1981...	280	22.1	6,160	14.3	884
1982...	310	24.1	7,480	14.3	1,070
KAUAI/MAUI/OAHU ²					
1978...	47	16.9	795	12.1	96
1979...	45	18.7	840	15.8	133
1980...	35	17.1	600	16.6	100
1981...	30	17.3	520	16.9	88
1982...	20	17.0	340	16.6	56

¹ Sum of island estimates may not add to State total due to rounding.

² Kauai and Oahu combined with Maui to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Processing and fresh market									
						Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	22	26	29	32	25	582	488	519	620	671	9.5	15.2	18.1	12.7	14.7
February.....	23	27	26	31	25	576	389	555	552	635	9.0	17.3	15.8	13.9	16.1
March.....	32	30	40	29	27	933	638	694	644	841	9.7	21.8	13.8	14.5	15.6
April.....	33	40	30	34	33	859	1,043	587	725	928	11.2	17.0	13.1	12.5	14.9
May.....	18	31	30	28	31	459	658	586	642	767	12.7	11.7	14.1	11.7	13.1
June.....	19	23	33	25	32	507	540	525	507	589	13.1	11.3	13.7	10.2	11.1
July.....	16	27	28	21	23	380	429	610	460	445	14.3	12.8	12.6	15.2	13.5
August.....	15	27	27	19	25	339	524	507	341	480	15.1	16.1	12.9	19.0	18.4
September.....	19	26	27	18	23	484	451	570	385	497	15.5	12.2	16.1	21.0	17.1
October.....	26	26	24	20	28	618	554	531	619	686	13.7	12.6	14.8	19.4	15.1
November.....	22	28	27	26	28	450	427	502	550	624	12.6	15.5	14.8	14.0	12.3
December.....	27	27	29	27	30	583	459	714	655	657	13.8	17.2	14.7	13.9	12.1
Total or average...	270	335	350	310	330	6,770	6,600	6,900	6,700	7,820	12.1	15.2	14.5	14.5	14.4

¹ Sum of monthly estimates may not add to annual total due to rounding.

**PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price,
and value, State of Hawaii, 1978-82**

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars
1978...	720	13.1	94	1,010	7.5	76
1979...	900	15.2	137	1,010	7.7	78
1980...	840	14.8	124	1,030	8.6	89
1981...	870	14.8	129	690	10.3	71
1982...	770	14.5	112	920	10.4	96

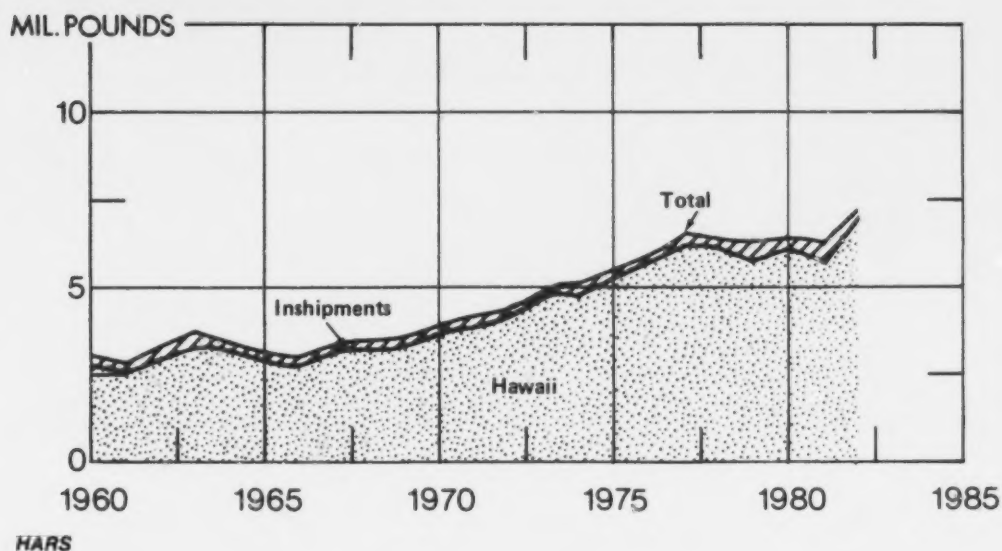
MUSTARD CABBAGE: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	110	13.4	1,470	23.3	343
1979...	120	10.4	1,250	29.0	363
1980...	100	13.3	1,330	30.3	403
1981...	125	12.2	1,520	28.3	430
1982...	120	9.8	1,170	35.7	418

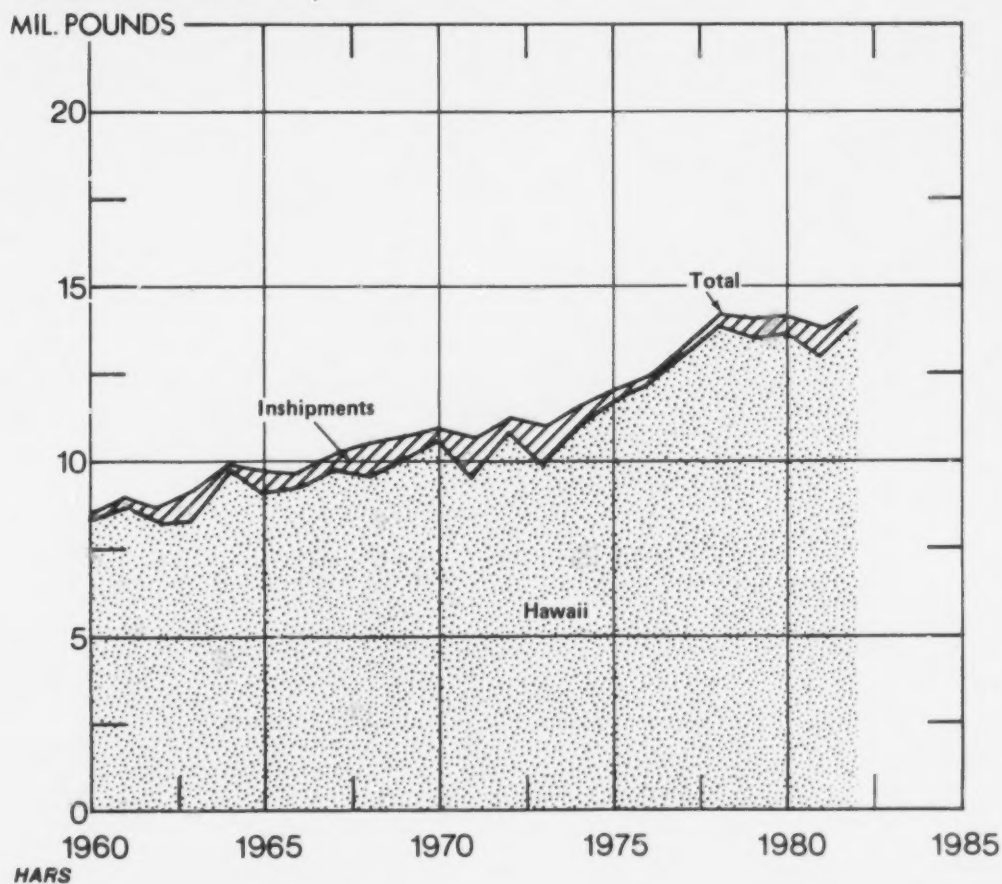
DASHEEN: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	9	26.7	240	46.3	111
1979...	10	25.0	250	51.3	128
1980...	14	24.3	340	51.4	175
1981...	7	28.6	200	59.0	118
1982...	13	25.4	330	65.1	215

**MARKET SUPPLY: Fresh Market Chinese Cabbage,
State of Hawaii, 1960-82**



**MARKET SUPPLY: Fresh Market Head Cabbage,
State of Hawaii, 1960-82**



HEAD CABBAGE: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE ¹					
1978...	460	30.0	13,800	10.5	1,449
1979...	450	30.0	13,500	11.3	1,526
1980...	460	29.5	13,600	12.8	1,741
1981...	510	25.0	12,800	14.0	1,792
1982...	540	25.5	13,800	14.1	1,946
HAWAII/KAUAI/OAHU ²					
1978...	80	22.9	1,835	10.5	193
1979...	90	22.4	2,020	11.2	226
1980...	100	23.3	2,330	12.3	287
1981...	120	19.2	2,300	13.6	312
1982...	125	21.6	2,700	12.9	348
MAUI					
1978...	380	31.5	11,965	10.5	1,256
1979...	360	31.9	11,500	11.3	1,300
1980...	360	31.3	11,270	12.9	1,454
1981...	390	26.9	10,500	14.1	1,480
1982...	415	26.7	11,100	14.4	1,598

¹ Sum of island estimates may not add to State total due to rounding.

² Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production ¹					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- Acres -----					----- 1,000 pounds -----					----- Cents per pound -----				
January.....	38	34	38	43	43	1,167	949	1,162	1,139	1,218	11.5	13.9	14.7	13.9	15.4
February.....	39	37	36	48	45	1,165	1,020	1,087	1,203	1,156	10.7	15.6	12.9	13.9	15.6
March.....	41	36	37	47	49	1,232	1,037	1,198	1,263	1,247	10.1	18.5	12.5	13.1	15.8
April.....	39	38	38	47	39	1,115	1,179	1,220	1,259	1,152	8.8	15.6	12.5	12.6	15.5
May.....	39	44	40	47	41	1,191	1,334	1,245	1,162	1,219	7.9	9.8	12.5	10.5	15.0
June.....	36	39	39	44	43	1,090	1,185	1,128	1,087	1,086	8.1	8.4	11.3	9.3	13.0
July.....	34	40	39	35	43	949	1,180	1,183	830	1,181	10.0	7.9	10.4	13.4	11.7
August.....	40	38	41	39	45	1,257	1,227	1,093	877	1,026	11.4	7.8	10.6	14.8	11.6
September.....	37	38	41	34	47	1,124	1,130	1,118	797	906	11.4	7.8	13.0	17.2	13.9
October.....	39	37	36	38	48	1,193	1,121	961	929	1,111	11.3	8.6	13.7	18.8	14.2
November.....	39	38	36	44	45	1,169	1,117	994	1,041	1,135	11.9	11.6	14.7	17.0	13.6
December.....	39	33	37	44	52	1,148	1,041	1,211	1,213	1,363	12.9	12.3	14.7	15.7	13.0
Total or average...	460	450	460	510	540	13,800	13,500	13,600	12,800	13,800	10.5	11.3	12.8	14.0	14.1

¹ Sum of monthly estimates may not add to State total due to rounding.

CELERY: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE					
1978...	50	55.3	2,765	17.3	478
1979...	65	40.8	2,650	17.3	458
1980...	70	41.1	2,880	16.7	481
1981...	65	43.4	2,820	20.1	567
1982...	75	42.0	3,150	19.4	611
HAWAII					
1978...	38	57.0	2,165	16.7	362
1979...	50	41.6	2,080	16.7	347
1980...	55	41.8	2,300	16.1	370
1981...	50	42.0	2,100	19.6	412
1982...	60	40.7	2,440	19.1	466
MAUI					
1978...	12	50.0	600	19.3	116
1979...	15	38.0	570	19.4	111
1980...	15	38.7	580	19.1	111
1981...	15	48.0	720	21.5	155
1982...	15	47.3	710	20.4	145

CELERY: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested					Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	4	5	4	5	6	175	162	164	201	293	16.2	17.8	18.7	19.8	20.6
February.....	4	5	4	5	5	207	183	155	208	242	16.0	19.2	18.0	19.9	20.8
March.....	4	5	6	5	6	254	195	240	242	263	16.1	18.5	17.5	18.8	21.7
April.....	4	6	6	6	6	261	233	261	253	270	17.0	17.7	16.2	18.9	19.6
May.....	5	6	5	7	6	300	243	244	299	280	18.6	16.5	16.5	19.6	19.4
June.....	5	6	6	5	7	272	264	253	265	313	17.8	17.6	16.5	20.7	20.0
July.....	4	6	7	6	7	225	255	261	235	310	19.5	18.4	16.5	21.0	18.1
August.....	4	6	7	5	6	223	254	275	219	253	18.3	16.5	16.6	21.1	17.4
September.....	4	6	6	5	6	216	209	238	206	202	16.8	16.4	16.1	20.5	18.5
October.....	4	5	6	5	6	213	232	260	223	215	17.0	16.2	16.2	20.1	18.4
November.....	4	5	7	5	7	203	226	260	215	232	17.1	16.6	16.1	20.0	18.7
December.....	4	4	6	6	7	216	194	269	254	277	16.4	16.6	16.4	20.6	18.6
Total or average...	50	65	70	65	75	2,765	2,650	2,880	2,820	3,150	17.3	17.3	16.7	20.1	19.4

SWEET CORN: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE ¹					
1978...	400	4.0	1,590	20.0	318
1979...	380	4.0	1,510	21.2	320
1980...	250	3.8	950	26.2	249
1981...	290	3.6	1,050	29.3	308
1982...	170	3.3	560	33.4	187
HAWAII/KAUAI ²					
1978...	15	5.0	75	20.0	15
1979...	20	4.5	90	22.7	20
1980...	35	4.9	170	27.6	47
1981...	40	4.4	175	26.9	47
1982...	16	4.7	75	32.0	24
MAUI/MOLOKAI					
1978...	30	4.5	135	22.5	30
1979...	30	3.0	90	21.0	19
1980...	20	4.0	80	24.5	20
1981...	15	3.7	55	34.6	19
1982...	9	3.9	35	45.7	16
OAHU					
1978...	355	3.9	1,380	19.8	273
1979...	330	4.0	1,330	21.1	281
1980...	195	3.6	700	26.0	182
1981...	235	3.5	820	29.5	242
1982...	145	3.1	450	32.6	147

¹ Sum of island estimates may not add to State total due to rounding.

² Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEET CORN: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested					Production ¹					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	23	35	13	17	11	106	61	33	53	30	21.2	24.5	23.2	27.4	31.1
February.....	22	16	12	15	6	100	29	36	51	26	20.9	21.4	22.7	28.4	33.5
March.....	26	23	8	14	2	117	74	21	52	10	20.9	19.9	25.7	31.7	36.0
April.....	27	17	16	28	6	135	64	48	133	28	20.5	20.1	27.8	30.7	38.9
May.....	40	23	21	34	11	164	98	91	109	37	19.3	23.6	21.7	31.5	33.8
June.....	41	30	18	32	19	140	167	93	116	66	20.2	22.8	21.6	31.9	34.3
July.....	44	39	23	20	24	138	196	133	88	95	21.3	21.2	26.8	27.9	32.0
August.....	28	41	27	29	18	122	195	125	106	67	20.2	20.7	27.1	27.3	31.6
September.....	28	43	24	32	12	130	206	80	104	49	19.5	20.4	26.6	28.0	30.7
October.....	38	39	27	26	14	163	190	86	89	51	19.2	21.1	28.1	28.9	31.7
November.....	42	42	32	25	25	127	145	101	85	68	18.8	20.4	28.8	28.0	36.9
December.....	41	32	29	18	22	148	85	103	62	33	19.4	19.7	22.5	28.3	34.5
Total or average...	400	380	250	290	170	1,590	1,510	950	1,050	560	20.0	21.2	26.2	29.3	33.4

¹ Sum of monthly estimates may not add to annual total due to rounding.

CUCUMBERS: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	260	16.5	4,300	24.0	1,032
1979...	270	17.5	4,700	26.1	1,227
1980...	210	22.0	4,600	25.5	1,173
1981...	250	20.0	5,000	25.3	1,265
1982...	225	19.3	4,350	31.1	1,353
HAWAII					
1978...	95	21.7	2,060	21.2	437
1979...	120	21.7	2,600	23.3	606
1980...	90	32.8	2,950	22.8	673
1981...	90	33.3	3,000	22.2	666
1982...	90	30.6	2,750	28.2	776
KAUAI					
1978...	40	16.1	645	23.3	150
1979...	35	17.7	620	26.1	162
1980...	15	16.0	240	27.7	66
1981...	35	11.4	400	24.6	98
1982...	35	11.6	405	27.8	113
MAUI/MOLOKAI					
1978...	25	14.0	350	26.0	91
1979...	15	16.7	250	31.2	78
1980...	25	14.4	360	26.7	96
1981...	35	11.4	400	28.2	113
1982...	25	13.2	330	30.5	101
OAHU					
1978...	100	12.4	1,245	28.4	354
1979...	100	12.3	1,230	31.0	381
1980...	80	13.1	1,050	32.2	338
1981...	90	13.3	1,200	32.3	388
1982...	75	11.7	865	42.0	363

¹ Sum of island estimates may not add to State total due to rounding.

CUCUMBERS: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production ²					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	34	24	22	24	33	351	198	217	371	385	23.2	33.5	26.7	28.5	30.3
February.....	28	22	17	17	21	244	98	264	198	335	25.0	39.4	26.3	30.0	41.6
March.....	34	35	21	26	25	296	355	220	307	299	27.7	26.1	27.9	30.8	40.6
April.....	38	32	27	36	33	444	366	392	495	377	28.1	24.6	26.4	20.8	34.1
May.....	46	29	28	30	28	645	425	488	459	299	14.9	27.0	25.4	21.4	31.5
June.....	34	33	28	27	32	363	471	354	414	466	22.6	25.5	23.8	26.2	29.6
July.....	31	38	30	26	34	406	458	526	549	561	26.0	25.2	22.9	24.5	18.1
August.....	32	31	37	34	31	435	528	577	503	309	19.8	23.1	18.5	20.9	25.4
September.....	33	36	30	32	24	310	527	479	422	326	23.5	25.1	23.8	24.2	32.0
October.....	36	42	25	30	18	284	474	298	387	325	28.0	25.0	28.9	27.4	32.4
November.....	36	36	22	28	23	255	393	336	500	337	30.1	25.7	31.1	28.0	33.1
December.....	33	28	22	27	21	267	407	449	395	331	30.7	28.2	31.7	27.3	34.8
Total or average...	260	270	210	250	225	4,300	4,700	4,600	5,000	4,350	24.0	26.1	25.5	25.3	31.1

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

² Sum of monthly estimates may not add to annual total due to rounding.

DAIKON: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	160	19.8	3,170	13.6	431
1979...	210	15.5	3,260	15.2	496
1980...	200	16.9	3,370	15.9	536
1981...	200	13.4	2,680	16.6	445
1982...	180	17.0	3,060	17.8	545
HAWAII					
1978...	70	19.3	1,350	8.3	112
1979...	110	13.4	1,470	9.4	138
1980...	110	15.0	1,645	10.6	174
1981...	110	12.9	1,420	12.6	179
1982...	100	19.4	1,940	14.0	272
MAUI/OAHU ²					
1978...	90	20.2	1,820	17.5	319
1979...	100	17.9	1,790	20.0	358
1980...	90	19.2	1,725	21.0	362
1981...	90	14.0	1,260	21.1	266
1982...	80	14.0	1,120	24.4	273

¹ Sum of Island estimates may not add to State total due to rounding.

² Maui and Oahu combined to avoid disclosure of individual operations.

DAIKON: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Processing and fresh market									
						Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	14	15	18	18	17	317	266	266	194	230	9.9	19.6	17.3	16.1	21.7
February.....	12	15	16	14	13	273	205	288	185	207	12.0	18.8	17.5	15.4	19.5
March.....	14	15	15	18	11	323	193	267	249	242	10.9	21.0	17.9	17.6	20.6
April.....	12	17	20	19	13	295	259	385	311	299	12.4	19.2	14.6	11.8	20.3
May.....	10	18	21	20	14	278	333	370	230	324	12.6	11.6	12.2	14.9	15.2
June.....	10	21	14	16	15	243	301	244	182	269	14.0	11.2	13.8	17.5	14.1
July.....	14	22	16	19	15	278	295	276	254	226	16.3	12.9	15.7	17.4	15.9
August.....	15	22	17	19	18	273	299	267	232	277	12.2	13.9	14.3	14.7	15.1
September.....	13	15	16	15	15	230	252	255	155	211	13.5	13.0	15.2	16.3	17.7
October.....	17	16	17	13	18	242	295	247	202	284	16.6	16.6	17.0	19.2	17.3
November.....	15	18	12	14	16	216	323	212	224	238	16.9	12.3	19.2	18.3	17.9
December.....	14	16	18	15	15	202	239	293	262	253	19.0	16.9	18.5	21.3	19.6
Total or average...	160	210	200	200	180	3,170	3,260	3,370	2,680	3,060	13.6	15.2	15.9	16.6	17.8

¹ Sum of monthly estimates may not add to State total due to rounding.

EGGPLANT: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE ¹					
1978...	65	26.8	1,740	34.3	597
1979...	60	26.2	1,570	42.0	659
1980...	60	25.7	1,540	38.1	587
1981...	60	35.7	1,580	35.7	564
1982...	45	25.1	1,130	45.2	511
HAWAII/MAUI/MOLOKAI ²					
1978...	11	19.5	215	25.0	54
1979...	13	18.5	240	35.0	84
1980...	14	18.6	260	35.8	93
1981...	15	18.0	270	34.8	94
1982...	11	22.7	250	40.7	102
KAUAI					
1978...	19	29.7	565	30.4	172
1979...	17	28.2	480	38.8	186
1980...	17	28.8	490	38.1	187
1981...	15	32.7	490	33.3	163
1982...	14	29.3	410	42.5	174
OAHU					
1978...	35	27.4	960	38.6	371
1979...	30	28.3	850	45.8	389
1980...	29	27.2	790	38.8	307
1981...	30	27.3	820	37.4	307
1982...	20	23.5	470	50.1	235

¹ Sum of island estimates may not add to State total due to rounding.

² Hawaii, Maui, and Molokai combined to avoid disclosure of individual operations.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Out-of-State sales	Farm price	Value of sales
	Acres	----- 1,000 pounds -----			Cents per pound	1,000 dollars
1978...	55	24.4	1,340	NA	61.1	819
1979...	75	24.8	1,860	1,155	61.2	1,138
1980...	40	40.2	1,610	1,420	67.7	1,090
1981...	64	44.7	2,860	2,620	76.2	2,179
1982...	100	36.3	3,630	NA	92.3	3,350

NA = Not available.

LETTUCE (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	590	17.5	10,300	20.9	2,153
1979...	650	14.5	9,400	21.1	1,983
1980...	660	15.0	9,900	19.7	1,950
1981...	680	15.0	10,200	22.7	2,315
1982...	650	14.5	9,400	26.2	2,463
HAWAII					
1978...	235	17.5	4,120	16.9	696
1979...	330	12.5	4,140	17.3	716
1980...	350	12.6	4,400	16.1	708
1981...	300	14.3	4,300	17.6	757
1982...	290	13.4	3,900	23.6	920
MAUI/MOLOKAI					
1978...	215	18.8	4,035	19.6	791
1979...	190	17.3	3,280	19.7	646
1980...	190	18.2	3,450	18.3	631
1981...	260	15.0	3,900	21.8	850
1982...	245	15.5	3,800	25.9	984
OAHU					
1978...	140	15.2	2,135	31.2	666
1979...	130	15.2	1,970	31.5	621
1980...	120	17.1	2,050	29.8	611
1981...	120	16.7	2,000	35.4	708
1982...	115	14.8	1,700	32.9	559

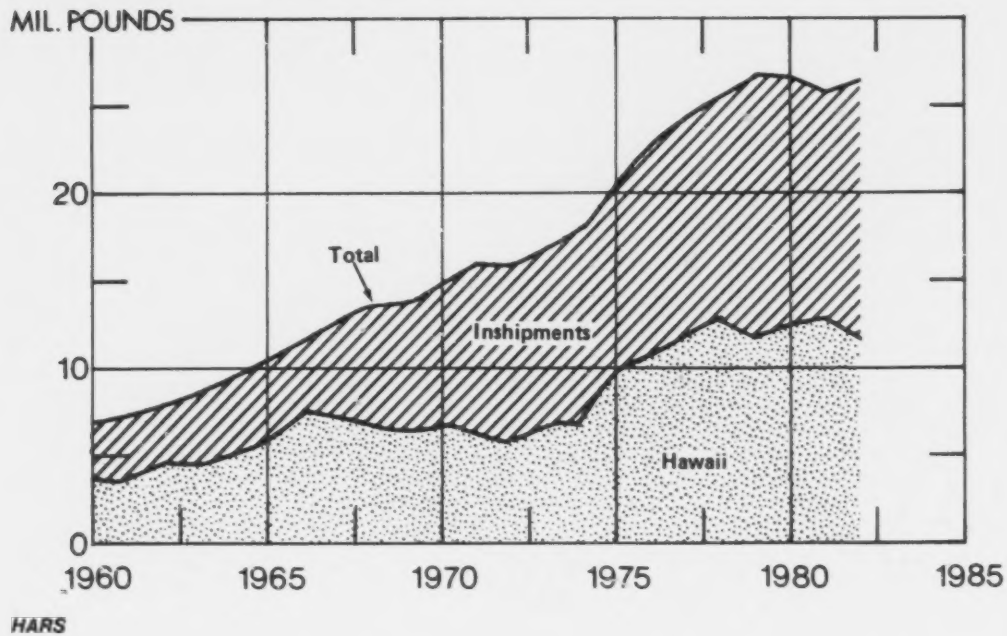
¹ Sum of island estimates may not add to State total due to rounding.

LETTUCE (HEAD, SEMI-HEAD): Acreage, production, and price, State of Hawaii, 1978-82

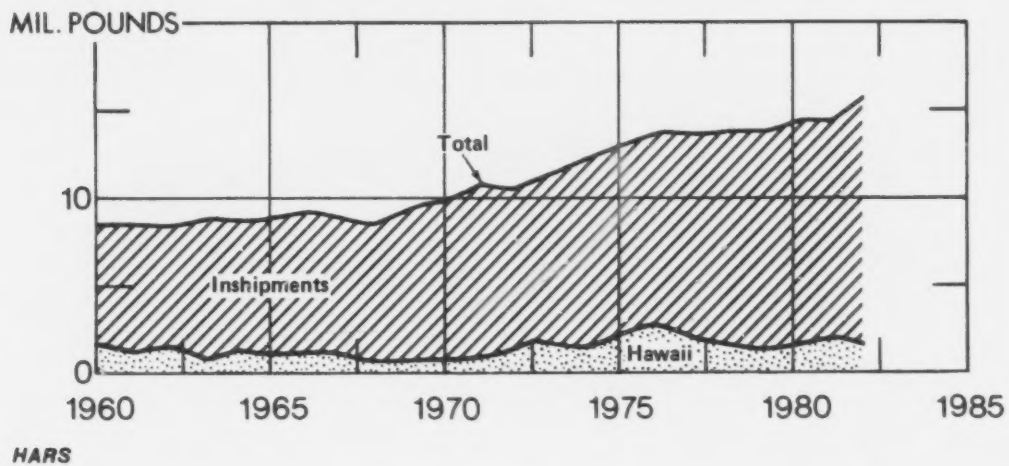
Month	Acreage harvested ¹					Production ¹					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	44	53	39	59	53	807	744	485	814	561	20.4	25.4	23.6	22.5	35.3
February.....	45	46	41	56	47	803	441	551	798	511	22.7	30.0	24.0	21.5	39.5
March.....	49	50	55	60	55	1,101	585	801	953	611	17.9	28.4	19.5	21.1	28.4
April.....	58	52	48	62	50	1,159	813	751	927	858	20.1	18.0	20.7	18.7	27.8
May.....	51	59	62	62	56	1,026	987	975	1,035	1,071	24.0	17.9	19.1	18.9	23.4
June.....	44	55	61	58	54	796	832	895	966	957	22.5	17.4	18.4	19.5	22.2
July.....	47	59	62	54	57	818	955	962	851	902	22.2	18.6	17.1	22.8	22.7
August.....	47	59	62	57	50	899	911	933	668	759	20.0	19.5	18.0	25.2	24.0
September.....	47	55	57	52	55	816	884	922	752	793	18.7	20.3	19.6	26.0	25.8
October.....	54	55	56	51	56	829	739	905	814	1,034	19.8	21.4	21.5	25.4	23.4
November.....	53	54	58	55	60	520	737	912	823	753	21.6	22.3	19.6	25.7	24.8
December.....	51	53	59	54	57	716	762	808	799	590	22.2	22.3	19.6	28.2	28.0
Total or average...	590	650	660	680	650	10,300	9,400	9,900	10,200	9,400	20.9	21.1	19.7	22.7	26.2

¹ Sum of monthly estimates may not add to State total due to rounding.

**MARKET SUPPLY: Fresh Market Lettuce,
State of Hawaii 1960-82**



**MARKET SUPPLY: Fresh Market Dry Onions,
State of Hawaii, 1960-82**



DRY ONIONS: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE¹					
1978...	75	20.0	1,500	36.3	544
1979...	70	17.0	1,190	45.0	536
1980...	80	14.4	1,150	60.8	699
1981...	120	16.5	1,980	51.4	1,018
1982...	105	12.9	1,350	66.2	894
HAWAII/KAUAI/OAHU²					
1978...	10	15.0	150	40.8	61
1979...	10	12.0	120	47.2	57
1980...	5	14.0	70	58.5	41
1981...	10	13.0	130	52.7	69
1982...	10	10.0	100	64.0	64
MAUI/MOLOKAI					
1978...	65	20.8	1,350	35.8	483
1979...	60	17.8	1,070	44.8	479
1980...	75	14.4	1,080	60.9	658
1981...	110	16.8	1,850	51.3	949
1982...	95	13.2	1,250	66.4	830

¹ Sum of island estimates may not add to State total due to rounding.

² Hawaii, Kauai, and Oahu combined to avoid disclosure of individual operations.

DRY ONIONS: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- Acres -----					----- 1,000 pounds -----					----- Cents per pound -----				
January.....	6	6	5	6	5	100	72	83	117	95	43.0	56.4	57.9	61.9	61.7
February.....	8	8	5	7	12	153	77	75	118	96	44.2	53.4	62.1	62.0	70.7
March.....	10	3	5	8	12	242	43	87	215	173	38.2	61.1	65.5	58.6	77.9
April.....	10	9	5	11	8	246	124	74	291	90	35.2	48.0	59.0	45.5	72.0
May.....	11	8	6	14	7	220	155	84	240	100	25.7	31.1	69.5	41.7	66.7
June.....	8	7	10	14	11	165	144	148	212	145	23.3	34.5	60.5	36.8	60.7
July.....	4	6	11	11	10	74	125	147	157	144	28.8	35.7	51.0	41.7	59.4
August.....	4	4	5	8	7	73	71	57	113	75	36.4	41.3	55.5	47.1	56.6
September.....	3	4	5	11	12	40	79	84	97	126	43.9	46.9	54.5	55.3	59.9
October.....	5	4	5	8	5	99	67	82	103	61	49.4	50.6	63.6	61.4	60.5
November.....	3	4	10	10	9	51	103	115	129	141	50.1	53.5	69.4	64.1	71.2
December.....	3	7	8	12	7	37	130	114	188	104	52.9	54.0	62.6	62.8	69.0
Total or average.	75	70	80	120	105	1,500	1,190	1,150	1,980	1,350	36.3	45.0	60.8	51.4	66.2

¹ Sum of monthly estimates may not add to State total due to rounding.

GREEN ONIONS: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE					
1978...	100	9.8	980	70.5	691
1979...	120	9.5	1,135	71.9	816
1980...	90	10.0	900	72.5	652
1981...	75	9.9	740	76.5	566
1982...	115	7.0	800	84.3	674
HAWAII/KAUAI					
1978...	5	14.0	70	47.1	33
1979...	8	8.8	70	53.7	38
1980...	7	11.4	80	65.5	52
1981...	8	8.8	70	69.2	48
1982...	10	6.5	65	78.5	51
MAUI/MOLOKAI					
1978...	10	11.5	115	64.4	74
1979...	12	9.6	115	70.8	81
1980...	8	11.2	90	72.6	65
1981...	7	10.0	70	78.2	55
1982...	10	6.0	60	95.0	57
OAHU					
1978...	85	9.4	795	73.4	584
1979...	100	9.5	950	73.4	697
1980...	75	9.7	730	73.3	535
1981...	60	10.0	600	77.2	463
1982...	95	7.1	675	83.9	566

GREEN ONIONS: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested					Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- Acres -----					----- 1,000 pounds -----					----- Cents per pound -----				
January.....	7	9	8	8	9	74	72	64	37	42	71.4	80.7	83.9	86.0	98.0
February.....	7	11	7	4	6	76	82	75	40	38	71.4	82.8	81.7	90.6	115.0
March.....	8	10	8	6	4	91	75	65	68	36	69.8	81.2	84.8	88.1	108.5
April.....	9	8	7	5	8	96	94	77	74	52	68.9	74.7	79.9	74.9	115.6
May.....	10	11	8	7	9	103	112	89	72	77	62.1	62.7	69.9	74.8	89.5
June.....	10	11	8	6	12	98	111	81	76	107	62.0	59.7	66.0	64.6	64.2
July.....	8	12	8	6	11	98	109	80	73	90	64.6	59.4	63.8	59.9	59.7
August.....	8	10	7	6	11	88	108	78	63	90	69.2	66.6	60.4	61.1	66.9
September.....	8	10	8	7	11	61	94	84	64	65	75.3	72.1	62.2	68.8	79.1
October.....	9	10	7	5	12	65	85	76	54	72	80.5	74.5	68.8	83.3	82.4
November.....	7	9	6	8	11	56	94	61	52	70	77.3	77.6	78.1	92.5	86.9
December.....	9	9	8	7	11	74	99	70	67	61	85.7	82.5	78.1	90.6	109.6
Total or average...	100	120	90	75	115	980	1,135	900	740	800	70.5	71.9	72.5	76.5	84.3

LOTUS ROOT: Acreage, yield, production, price, and value, State of Hawaii 1978-82 ¹

Year	Acreage harvested	Yield per acre	Production	Farm Price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	35	5.4	190	85.7	163
1979...	40	5.2	210	87.4	184
1980...	35	5.4	190	96.7	184
1981...	35	5.1	180	98.5	177
1982...	35	5.7	200	108.6	217

¹ State production all on island of Oahu.

PUMPKINS: Acreage, yield, production, price, and value, State of Hawaii, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
1978...	25	13.6	340	19.9	68
1979...	25	12.0	300	23.2	70
1980...	20	14.8	295	20.8	61
1981...	25	13.2	330	21.9	72
1982...	23	13.5	310	21.0	65

WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1978-82

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
1978...	31	1,545	36.0	556
1979...	32	1,670	41.1	686
1980...	32	1,420	48.3	686
1981...	30	1,130	63.3	715
1982...	25	850	73.2	622

GREEN PEPPERS: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
		STATE¹			
1978...	60	13.7	820	46.0	377
1979...	65	13.7	890	41.1	366
1980...	45	13.8	620	42.7	265
1981...	55	13.8	760	54.4	413
1982...	55	14.9	820	48.1	394
		HAWAII			
1978...	11	13.2	145	41.8	61
1979...	17	10.0	170	36.9	63
1980...	13	11.2	145	39.8	58
1981...	15	11.7	175	45.6	80
1982...	12	13.3	160	45.5	73
		KAUAI			
1978...	14	13.9	195	43.8	85
1979...	22	17.5	385	41.4	159
1980...	15	16.7	250	42.3	106
1981...	17	15.6	265	56.4	149
1982...	17	15.3	260	51.4	134
		MAUI/MOLOKAI			
1978...	16	11.2	180	42.8	77
1979...	11	15.9	175	42.6	75
1980...	12	14.2	170	45.3	77
1981...	14	15.7	220	51.2	113
1982...	18	15.3	275	44.3	121
		OAHU			
1978...	19	15.8	300	51.4	154
1979...	15	10.7	160	43.3	69
1980...	5	11.0	55	44.5	24
1981...	9	11.1	100	71.4	71
1982...	8	15.6	125	52.7	66

¹ Sum of island estimates may not add to State total due to rounding.

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- Acres -----					----- 1,000 pounds -----					----- Cents per pound -----				
January.....	21	20	9	12	17	45	48	33	53	41	37.1	42.8	50.6	48.6	54.7
February.....	23	13	14	12	13	58	48	26	60	65	31.4	39.1	48.0	53.0	55.7
March.....	24	14	13	12	12	71	56	52	43	62	32.1	41.7	42.4	79.2	58.8
April.....	24	19	13	12	10	63	81	42	62	58	47.8	37.1	42.6	94.9	57.1
May.....	32	18	12	14	12	68	92	81	60	84	60.0	48.2	46.1	69.3	58.0
June.....	27	25	14	16	18	97	113	65	72	107	60.5	49.9	45.6	52.3	55.1
July.....	24	29	17	14	20	71	100	83	58	86	57.7	40.5	35.6	53.5	46.1
August.....	22	21	15	13	20	61	76	39	57	96	43.3	41.7	41.8	51.4	38.4
September.....	22	21	13	17	13	73	102	37	75	65	39.7	30.4	42.4	45.0	35.7
October.....	21	19	13	20	12	105	76	61	83	58	43.4	32.5	35.3	34.1	36.3
November.....	20	19	13	21	9	49	42	44	65	62	41.8	42.8	43.7	39.4	36.8
December.....	19	14	14	21	6	59	56	57	72	36	46.6	47.3	46.7	49.5	41.5
Total or average...	60	65	45	55	55	820	890	620	760	820	46.0	41.1	42.7	54.4	48.1

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

ROMAINE: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE					
1978...	120	19.5	2,345	17.0	399
1979...	130	17.5	2,270	16.5	375
1980...	130	16.7	2,170	16.5	358
1981...	130	17.8	2,320	18.7	434
1982...	115	18.5	2,130	23.9	509
HAWAII					
1978...	70	19.1	1,340	16.0	214
1979...	80	17.0	1,360	15.0	204
1980...	75	16.9	1,270	15.4	196
1981...	75	18.1	1,360	17.6	239
1982...	65	18.2	1,180	23.6	278
MAUI					
1978...	50	20.1	1,005	18.4	185
1979...	50	18.2	910	18.8	171
1980...	55	16.4	900	18.0	162
1981...	55	17.5	960	20.3	195
1982...	50	19.0	950	24.3	231

ROMAINE: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production ¹					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- Acres -----					----- 1,000 pounds -----					----- Cents per pound -----				
January.....	7	11	9	11	8	150	177	116	188	134	16.1	19.4	18.2	18.0	36.6
February.....	9	12	10	11	8	180	121	151	190	107	20.2	21.5	19.1	18.6	41.0
March.....	11	13	12	11	9	219	186	189	209	145	17.9	22.0	18.6	19.2	37.3
April.....	10	10	8	11	10	206	196	125	215	191	17.4	13.2	18.7	16.9	28.1
May.....	9	13	13	13	11	194	226	220	227	244	22.5	13.3	18.2	16.2	22.7
June.....	9	12	10	12	11	175	235	184	209	227	19.2	13.4	15.7	15.8	18.0
July.....	9	10	12	11	11	173	184	217	204	226	19.1	13.0	14.4	17.9	16.4
August.....	11	11	11	10	9	242	207	203	164	154	15.0	14.6	13.8	17.9	18.9
September.....	11	10	10	12	9	213	170	170	207	162	13.8	15.9	14.6	22.1	20.9
October.....	11	10	11	8	10	217	185	195	183	215	13.2	19.3	16.0	20.2	20.1
November.....	12	9	12	9	9	187	186	196	176	167	14.8	18.6	16.4	19.7	20.3
December.....	11	9	12	11	10	189	197	204	148	158	16.7	17.6	16.0	24.4	22.1
Total or average....	120	130	130	130	115	2,345	2,270	2,170	2,320	2,130	17.0	16.5	16.5	18.7	23.9

¹ Sum of monthly estimates may not add to State total due to rounding.

**SQUASH, ITALIAN: Acreage, yield, production, price, and value,
by islands, 1978-82**

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
STATE ¹					
1978...	25	14.0	350	28.5	100
1979...	20	11.0	220	30.1	66
1980...	25	12.0	300	30.7	92
1981...	45	12.0	540	30.7	166
1982...	34	11.5	390	36.2	141
HAWAII					
1978...	3	13.3	40	28.8	12
1979...	8	10.0	80	29.0	23
1980...	11	10.9	120	29.3	35
1981...	16	11.9	190	30.5	58
1982...	20	11.5	230	36.5	84
KAUAI/OAHU ²					
1978...	4	11.2	45	30.7	14
1979...	2	10.0	20	30.6	6
1980...	2	15.0	30	36.4	11
1981...	3	10.0	30	37.0	11
1982...	3	10.0	30	39.3	12
MAUI					
1978...	18	14.7	265	28.1	74
1979...	10	12.0	120	30.8	37
1980...	12	12.5	150	31.0	46
1981...	26	12.3	320	30.2	97
1982...	11	11.8	130	35.0	45

¹ Sum of island estimates may not add to State total due to rounding.

² Oahu combined with Kauai to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	130	11.7	1,520	20.4	310
1979...	150	11.6	1,740	25.0	435
1980...	100	13.0	1,300	27.7	360
1981...	90	13.9	1,250	26.8	335
1982...	130	11.8	1,530	25.2	386
HAWAII					
1978...	30	11.0	330	18.4	61
1979...	40	7.0	280	21.2	59
1980...	2/12	2/12.5	2/150	2/23.8	2/36
1981...	2/10	2/13.0	2/130	2/25.0	2/33
1982...	2/15	2/8.7	2/130	2/24.1	2/31
KAUAI					
1978...	8	12.5	100	21.5	22
1979...	7	14.3	100	27.0	27
1980...	2/	2/	2/	2/	2/
1981...	2/	2/	2/	2/	2/
1982...	2/	2/	2/	2/	2/
MAUI/MOLOKAI					
1978...	30	14.7	440	19.8	87
1979...	38	15.0	570	21.0	120
1980...	43	15.3	660	24.0	158
1981...	50	14.2	710	24.1	171
1982...	80	12.5	1,000	22.9	229
OAHU					
1978...	60	10.8	650	21.6	140
1979...	65	12.2	790	29.0	229
1980...	45	10.9	490	33.8	166
1981...	30	13.7	410	31.9	131
1982...	35	11.4	400	31.4	126

¹ Sum of island estimates may not add to State total due to rounding.

² Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested					Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	10	11	7	7	11	115	95	86	88	84	23.2	21.4	26.4	28.2	28.1
February.....	10	11	8	6	10	108	101	97	84	90	22.3	23.8	28.7	27.5	29.4
March.....	8	11	10	6	10	98	139	118	94	112	21.8	25.1	27.3	26.1	29.4
April.....	9	11	7	7	6	92	127	102	104	86	22.6	24.1	26.8	25.6	28.2
May.....	7	12	8	7	10	104	132	106	108	105	21.1	25.2	28.4	27.1	27.9
June.....	10	12	7	6	9	134	148	94	89	140	21.5	25.1	27.7	28.4	29.5
July.....	15	13	8	8	12	167	156	109	97	143	22.2	25.6	27.2	26.1	27.1
August.....	12	14	8	8	13	140	160	105	112	143	19.1	25.1	26.4	27.9	24.1
September.....	12	14	9	7	13	142	174	119	103	173	18.4	25.7	27.5	26.1	23.3
October.....	11	14	8	9	10	129	197	115	125	161	17.0	25.3	28.5	26.7	21.0
November.....	12	15	10	8	13	149	171	129	116	156	18.1	25.3	28.5	26.7	19.3
December.....	12	12	10	11	13	142	140	120	130	137	18.6	25.9	28.5	25.4	22.3
Total or average...	130	150	100	90	130	1,520	1,740	1,300	1,250	1,530	20.4	25.0	27.7	26.8	25.2

TOMATOES: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	*,000 dollars
STATE ¹					
1978...	250	28.0	7,000	28.6	2,002
1979...	270	23.0	6,200	35.0	2,170
1980...	270	28.5	7,700	31.0	2,387
1981...	280	29.5	8,300	35.3	2,930
1982...	260	30.0	7,800	34.7	2,707
HAWAII					
1978...	105	40.0	4,205	28.0	1,177
1979...	120	30.4	3,650	36.5	1,332
1980...	130	41.0	5,330	30.8	1,642
1981...	125	41.4	5,170	35.6	1,841
1982...	125	40.8	5,100	35.7	1,821
KAUAI					
1978...	15	14.0	210	32.0	67
1979...	10	16.0	160	37.3	60
1980...	10	15.0	150	42.8	64
1981...	8	16.2	130	46.6	61
1982...	5	17.0	85	48.2	41
MAUI/MOLOKAI					
1978...	110	20.1	2,210	27.6	610
1979...	120	17.5	2,100	31.5	662
1980...	120	16.6	1,990	29.6	589
1981...	135	20.1	2,720	32.6	887
1982...	120	20.6	2,475	30.7	760
OAHU					
1978...	20	18.8	375	39.4	148
1979...	20	14.5	290	40.1	116
1980...	10	23.0	230	40.1	92
1981...	12	23.3	280	50.4	141
1982...	10	18.5	185	45.8	85

¹ Sum of island estimates may not add to State total due to rounding.

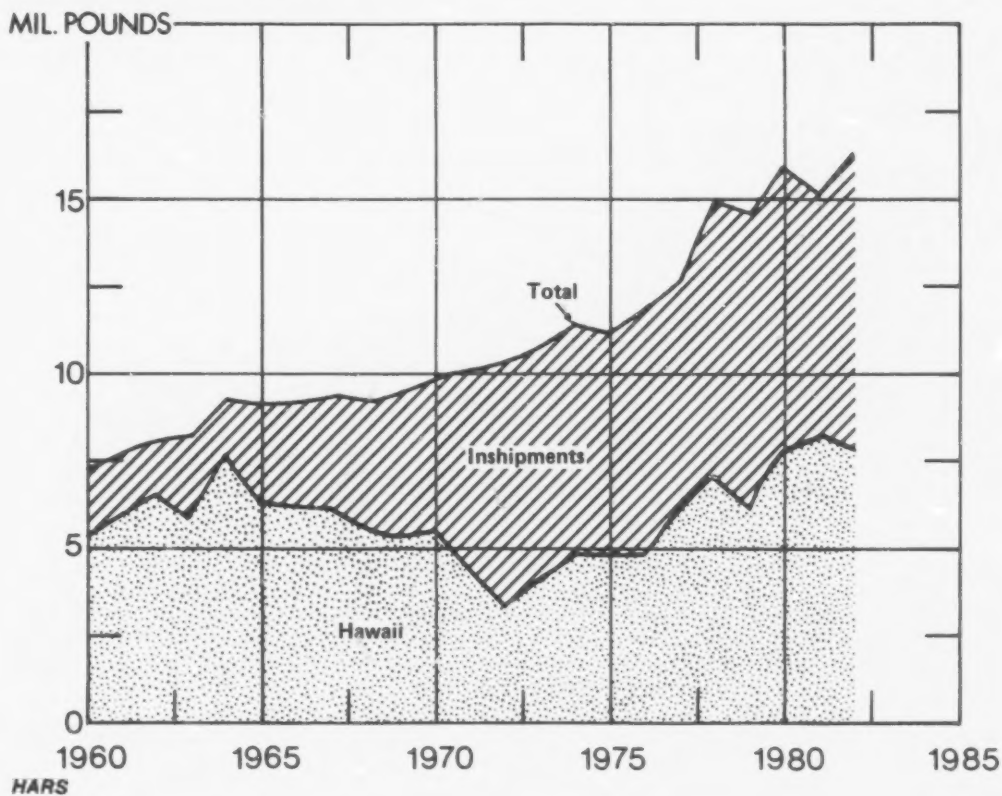
TOMATOES: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production ²					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	45	60	49	47	58	552	372	450	695	822	31.1	41.8	41.5	41.2	34.4
February.....	40	52	41	53	58	454	334	471	582	660	28.3	35.9	39.7	47.0	40.4
March.....	42	43	38	53	52	569	254	522	678	734	30.2	38.6	33.6	48.4	36.9
April.....	47	42	43	54	50	658	247	587	787	746	30.7	43.4	31.9	44.6	31.6
May.....	46	40	44	58	52	655	430	584	917	572	32.8	40.9	32.2	33.6	29.3
June.....	38	49	40	59	54	616	757	785	847	726	31.7	36.8	32.3	25.8	34.3
July.....	42	41	50	46	50	588	665	769	730	733	27.2	30.6	25.9	27.8	31.6
August.....	48	43	47	46	42	554	566	626	610	593	25.5	28.7	30.0	29.8	32.6
September.....	45	41	39	46	47	627	560	633	514	520	20.6	30.7	28.2	32.9	32.0
October.....	42	48	44	40	41	522	671	710	517	511	23.3	28.9	30.2	32.4	33.8
November.....	44	57	38	49	47	596	678	705	659	654	27.9	34.7	28.0	31.7	36.0
December.....	53	60	37	52	47	609	670	859	764	574	32.8	40.2	27.1	30.3	41.6
Total or average...	250	270	270	280	260	7,000	6,200	7,700	8,300	7,800	28.6	35.0	31.0	35.3	34.7

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

² Sum of monthly estimates may not add to annual total due to rounding.

**MARKET SUPPLY: Fresh Market Tomatoes,
State of Hawaii, 1960-82**



**MINOR CROPS: Acreage, yield, production, price, and value,
State of Hawaii, 1978-82**

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	----- 1,000 pounds -----		Cents per pound	1,000 dollars
BITTERMELON					
1978...	22	15.0	330	54.7	181
1979...	26	12.3	320	52.1	167
1980...	14	15.7	220	70.4	155
1981...	25	11.6	290	65.2	189
1982...	16	11.6	185	84.5	156
ORIENTAL SQUASH (HYOTAN AND TOGAN)					
1978...	45	16.7	750	19.3	145
1979...	45	17.3	780	18.0	140
1980...	45	16.2	730	18.5	135
1981...	55	14.0	770	17.4	134
1982...	35	12.7	445	28.8	128
PARSLEY					
1978...	16	13.1	210	56.0	118
1979...	13	13.1	170	57.8	98
1980...	18	13.9	250	67.5	169
1981...	20	14.0	280	68.7	192
1982...	18	14.4	260	73.4	191
RADISH					
1978...	20	11.5	230	25.3	58
1979...	31	11.6	360	33.3	120
1980...	25	11.8	295	33.3	98
1981...	20	12.0	240	34.0	82
1982...	26	10.4	270	34.4	93
CHINESE PEAS					
1978...	17	5.0	85	187.0	159
1979...	21	4.8	100	187.0	187
1980...	17	4.1	70	183.9	129
1981...	16	4.4	70	186.9	131
1982...	10	5.0	50	192.0	96

WATERMELONS: Acreage, yield, production, price, and value, by islands, 1978-82

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
STATE ¹					
1978...	190	9.8	1,870	19.2	359
1979...	125	9.0	1,130	23.7	268
1980...	130	10.4	1,350	23.2	313
1981...	150	10.7	1,610	25.7	414
1982...	165	13.3	2,200	24.9	548
HAWAII					
1978...	40	6.6	265	18.0	48
1979...	20	6.5	130	17.0	22
1980...	30	7.3	220	18.7	41
1981...	30	7.0	210	20.0	42
1982...	18	8.6	155	23.1	36
KAUAI					
1978...	20	12.5	250	18.5	46
1979...	5	12.0	60	17.6	11
1980...	7	12.9	90	23.4	21
1981...	7	11.4	80	28.0	22
1982...	18	15.0	270	20.2	55
MAUI/MOLOKAI					
1978...	60	12.8	765	17.2	132
1979...	30	12.7	380	20.2	77
1980...	28	12.1	340	21.4	73
1981...	43	13.0	560	23.0	129
1982...	53	16.5	875	22.0	192
OAHU					
1978...	70	8.4	590	22.6	133
1979...	70	8.0	560	28.3	158
1980...	65	10.8	700	25.4	178
1981...	70	10.9	760	29.1	221
1982...	76	11.8	900	29.5	265

¹ Sum of island estimates may not add to State total due to rounding.

WATERMELONS: Acreage, production, and price, State of Hawaii, 1978-82

Month	Acreage harvested ¹					Production					Farm price				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	Acres					1,000 pounds					Cents per pound				
January.....	19	7	3	4	1	70	23	5	20	7	16.5	20.6	20.0	19.0	22.0
February.....	10	3	2	3	1	54	7	10	15	2	16.8	18.8	20.0	19.0	23.2
March.....	8	1	2	7	2	41	3	10	36	2	22.7	18.8	20.0	23.5	40.0
April.....	13	1	6	14	2	115	4	18	77	4	22.0	18.8	24.6	26.4	40.0
May.....	14	12	12	20	5	49	118	150	125	36	23.6	33.4	21.0	27.9	25.4
June.....	43	33	16	26	16	249	165	90	334	123	20.9	30.2	24.3	26.0	24.8
July.....	30	44	18	26	54	256	224	113	124	437	20.0	22.7	24.4	25.5	28.3
August.....	17	19	24	20	75	99	160	287	277	801	21.4	20.2	24.4	26.0	23.4
September.....	37	18	17	37	39	405	226	356	274	309	18.4	20.4	23.0	24.4	20.5
October.....	42	17	14	32	31	364	117	195	240	187	17.0	20.3	22.8	27.5	26.6
November.....	16	12	15	8	24	97	64	81	56	216	17.8	22.1	23.6	23.2	28.6
December.....	12	3	5	3	12	71	19	35	32	76	19.6	22.5	19.8	22.5	24.1
Total or average...	190	125	130	150	165	1,870	1,130	1,350	1,610	2,200	19.2	23.7	23.2	25.7	24.9

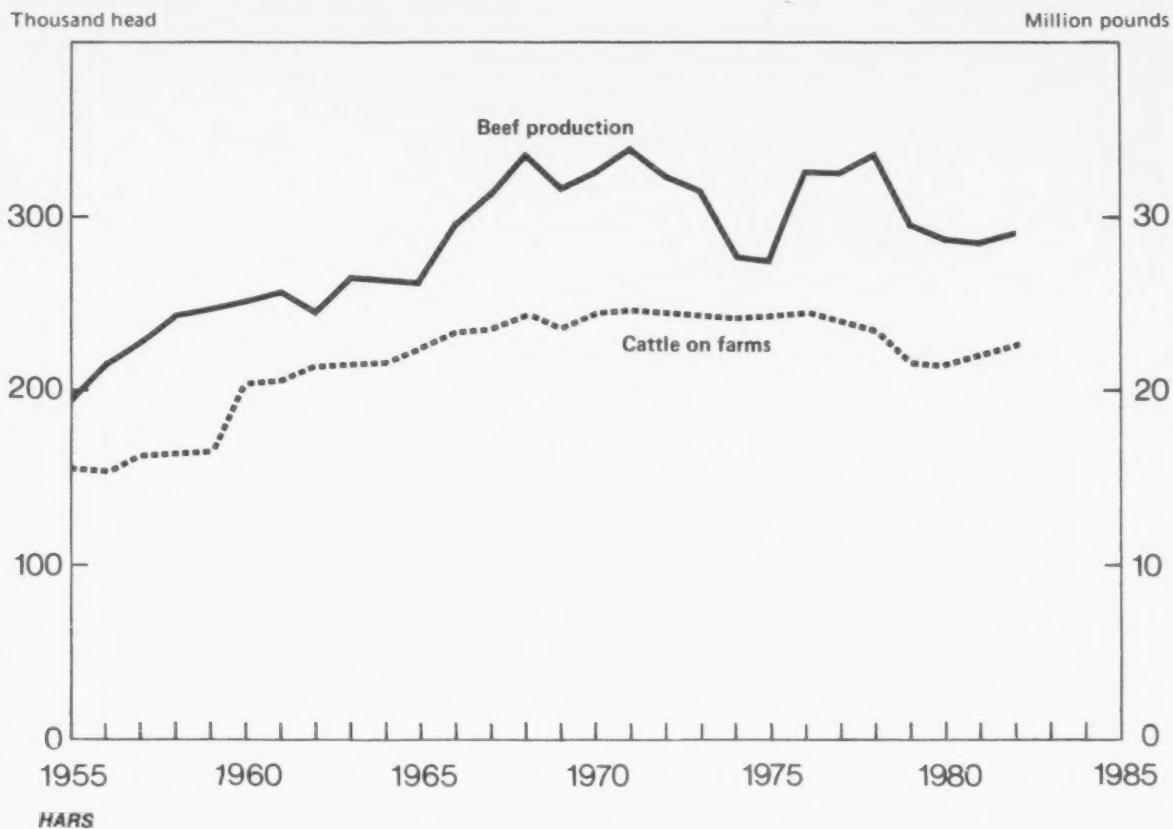
¹ Sum of monthly data exceeds total because harvest period longer than 1 month.



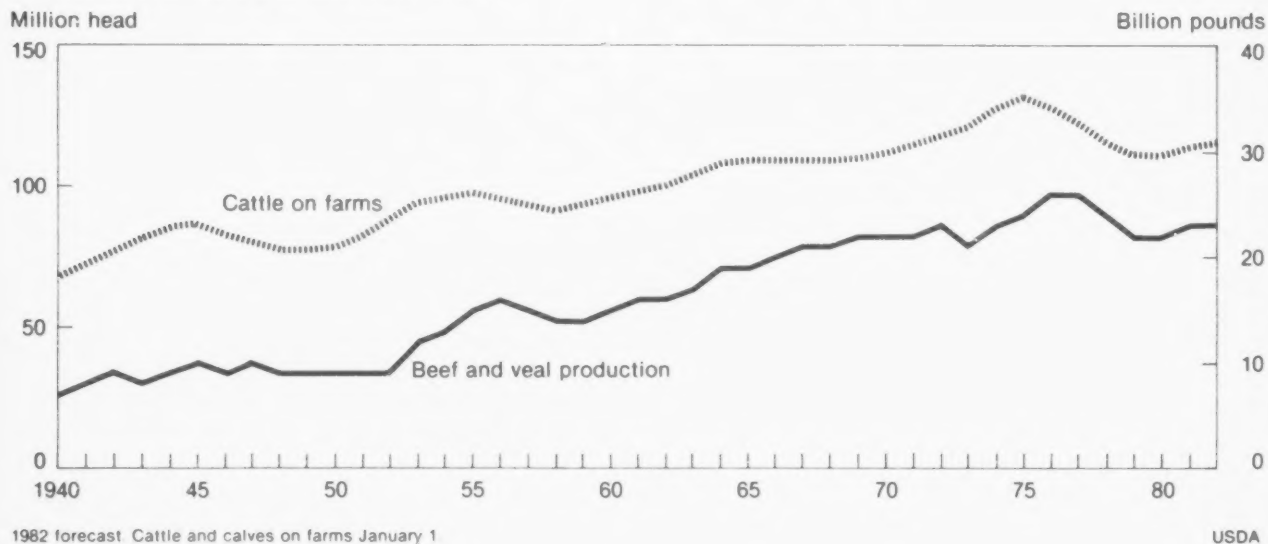
1982 LIVESTOCK SUMMARY

In 1982, just about every segment of the livestock industry was affected by a decline in either production and/or value of sales. As a result, cash receipts of \$78.3 million from **LIVESTOCK** marketings were 11 percent below 1981 and at the lowest level since 1978. This was the first year-to-year decline in cash receipts since 1965. Although returns from **CATTLE** marketings decreased 3 percent from a year earlier to \$27.6 million, the cattle industry nonetheless surpassed the problem-plagued dairy industry as the number one livestock enterprise. Production of **BEEF** increased 1 percent to 52.9 million pounds, but was still not enough to offset a 4 percent lower average price returned to ranchers. Hawaii and Molokai were the only islands to show increases from a year ago in both production and total value of sales. The State's inventory of cattle and calves increased 2,000 head during the year to a total of 230,000 on hand January 1, 1983. Maui and Molokai inventories declined but the other islands each recorded increases. The **DAIRY** industry, beset by problems throughout the year, suffered a 28 percent decline in cash receipts from a year ago to \$21.9 million. Total milk production decreased 4 percent from 1981 as both the number of milk cows and output per cow were down. However, a sharp drop in marketings caused by the dumping of pesticide contaminated milk on Oahu was the main reason for the 28 percent decline in receipts. The average price received by farmers was up slightly from the previous year to \$20.59 per hundredweight. Returns from the sales of **EGGS**, **BROILERS**, and **CHICKENS** totaled \$19.8 million compared to \$20.5 million the year before. Much of the decrease in poultry receipts resulted from a 9 percent decrease in egg production. Seven percent fewer layers, on hand during the year, and a 2 percent drop in the rate of lay were both responsible for the lower output. Egg prices increased 4.1 cents to 86.3 cents a dozen. Cash receipts from broiler sales remained at \$5.1 million. Among the livestock enterprises, cash receipts from **HOG** marketings showed the only sizeable increase during the year, up 1 percent to \$8.5 million. Pork production during 1982 decreased 2 percent from a year ago to 11.4 million pounds, but the average price rose 3 percent to 74.2 cents per pound live weight. Every island reported an increase in the average price farmers received but only Oahu showed an increase in both production and cash receipts. The inventory on farms December 1, 1982 at 49,000 hogs and pigs was down 6,000 head from a year ago to the lowest level in over 30 years.

Hawaii Cattle Numbers and Beef Production



U.S. Cattle Numbers and Beef Production



**CATTLE AND CALVES: January 1 inventory by sex classes and weight,
by islands, 1979-83**

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
		1,000 head									
		STATE ¹									
1979..	215	91	78	13	40	15	8	17	25	7	52
1980..	213	96	83	13	39	16	7	16	25	7	46
1981..	220	93	80	13	42	19	7	16	23	7	55
1982..	228	93	80	13	46	21	8	17	27	8	54
1983..	230	95	83	12	41	17	8	16	29	8	57
		HAWAII									
1979..	119.9	51.9	50.6	1.3	21.2	10.5	4.0	6.7	11.8	4.8	30.2
1980..	121.0	57.9	56.4	1.5	22.8	11.5	4.0	7.3	11.4	4.6	24.3
1981..	127.2	53.8	52.2	1.6	24.8	13.9	3.0	7.9	10.6	5.0	33.0
1982..	132.3	54.8	53.1	1.7	26.3	15.8	3.3	7.2	11.6	5.4	34.2
1983..	133.3	57.2	55.7	1.5	24.4	12.3	4.0	8.1	12.3	5.3	34.1
		KAUAI									
1979..	18.0	6.6	6.1	.5	3.1	1.8	.1	1.2	2.2	.5	5.6
1980..	18.1	6.9	6.4	.5	2.9	1.5	.2	1.2	2.0	.5	5.8
1981..	18.4	7.9	7.4	.5	2.3	1.1	.2	1.0	1.7	.5	6.0
1982..	17.0	7.2	6.8	.4	2.6	1.2	.2	1.2	1.9	.5	4.8
1983..	18.3	7.0	6.5	.5	3.2	1.3	.3	1.6	2.7	.4	5.0
		MAUI									
1979..	37.5	16.7	15.6	1.1	5.6	1.9	.5	3.2	4.4	1.3	9.5
1980..	36.0	16.5	15.3	1.2	6.2	2.5	.5	3.2	4.6	1.1	7.6
1981..	38.7	16.3	15.1	1.2	6.8	3.1	.5	3.2	4.7	1.2	9.7
1982..	39.5	16.0	14.9	1.1	7.4	3.0	.5	3.9	5.6	1.2	9.3
1983..	36.3	15.7	14.6	1.1	5.3	2.4	.6	2.3	3.5	1.4	10.4
		MOLOKAI/LANAI									
1979..	6.9	3.9	3.9	0	.8	.5	.3	*	.7	.2	1.3
1980..	6.5	3.6	3.6	0	.6	.4	.1	.1	.4	.2	1.7
1981..	7.2	3.8	3.8	0	.8	.4	0	.4	.5	.2	1.9
1982..	6.5	3.7	3.7	0	.5	.3	0	.2	.2	.2	1.9
1983..	6.4	3.7	3.7	0	.7	.4	0	.3	.4	.2	1.4
		OAHU									
1979..	32.7	11.9	1.8	10.1	9.3	.3	3.1	5.9	5.9	.2	5.4
1980..	31.4	11.6	1.7	9.9	6.5	.3	1.7	4.5	6.3	.2	6.8
1981..	28.5	11.6	1.7	9.9	6.9	.3	3.4	3.2	5.3	.2	4.5
1982..	32.7	11.3	1.8	9.5	9.2	.5	4.0	4.7	7.8	.2	4.2
1983..	35.7	11.7	2.4	9.3	7.6	.6	3.3	3.7	10.2	.4	5.8

* = Less than 500. ¹ State totals may not add due to rounding.

CATTLE: Number of operations, January 1, by size group, by islands, 1978-82 ¹

Year	Hawaii		Kauai/Niihau		Maui		Molokai		Oahu		State	
	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle
Number												
1978.....	355	195	155	70	190	80	15	10	85	55	800	410
1979.....	355	190	155	70	190	80	15	10	85	50	800	400
1980.....	360	210	150	80	190	90	20	10	80	50	800	440
1981.....	350	195	140	70	175	80	15	10	70	45	750	400
1982.....	340	190	140	70	180	85	20	10	70	45	750	400

¹ Difference between "Total" and "20+" is operations having 1-19 head of cattle (dairy and/or beef).

CATTLE AND CALVES: Number sold, pounds, price, and value, by islands, 1978-82

Year	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight) ³	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
STATE				
1978.....	69	62,300	39.10	24,370
1979.....	60	55,015	51.50	28,356
1980.....	55	52,475	53.50	28,074
1981.....	56	52,215	54.40	28,405
1982.....	56	52,910	52.20	27,619
HAWAII				
1978.....	45.9	41,035	39.00	16,004
1979.....	37.0	32,971	52.50	17,323
1980.....	34.5	33,153	54.20	17,973
1981.....	35.5	33,113	54.50	18,059
1982.....	37.7	36,211	52.20	18,907
KAUAI				
1978.....	6.1	5,775	39.00	2,252
1979.....	4.8	4,582	46.60	2,137
1980.....	6.0	5,765	54.10	3,118
1981.....	4.6	4,266	53.80	2,295
1982.....	3.9	3,629	52.70	1,913
MAUI				
1978.....	11.8	10,246	40.80	4,181
1979.....	12.3	11,553	51.70	5,971
1980.....	10.6	9,510	52.90	5,033
1981.....	10.3	9,161	55.30	5,067
1982.....	10.0	8,626	53.40	4,603
MOLOKAI				
1978.....	2.2	2,039	42.60	869
1979.....	2.5	2,377	50.80	1,207
1980.....	1.3	1,124	48.70	547
1981.....	2.4	2,352	56.60	1,331
1982.....	2.7	2,710	53.10	1,440
OAHU				
1978.....	3.0	3,205	33.20	1,064
1979.....	3.4	3,532	48.60	1,718
1980.....	2.6	2,923	48.00	1,403
1981.....	3.2	3,323	49.70	1,653
1982.....	1.7	1,734	43.60	756

¹ Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves; but, excludes interfarm sales. State totals may not add due to rounding.

² Excludes custom slaughter for use on farms where produced.

³ Prices are equivalent delivered slaughterhouse for sales on island of production and delivered shippers' dock for interisland and out-of-State sales.

**CATTLE: Number of feedlot slaughter cattle sold, pounds, price, and value,
by islands, 1978-82 ¹**

Year	Number sold ²	Pounds sold (live weight) ³	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
STATE				
1978.....	38.3	38,969	43.20	16,835
1979.....	30.3	30,188	56.40	17,031
1980.....	26.8	27,592	59.80	16,486
1981.....	29.2	29,449	60.10	17,711
1982.....	29.4	30,428	57.90	17,624
HAWAII				
1978.....	26.7	27,235	42.80	11,657
1979.....	18.8	18,651	56.50	10,538
1980.....	17.6	18,439	59.50	10,971
1981.....	20.2	20,572	59.90	12,323
1982.....	22.0	23,131	57.80	13,370
KAUAI/NIIHAU				
1978.....	2.3	2,435	43.40	1,057
1979.....	1.6	1,621	53.80	872
1980.....	2.8	2,851	59.80	1,706
1981.....	1.0	1,075	59.10	635
1982.....	.9	991	55.70	552
MAUI				
1978.....	6.9	6,911	44.10	3,048
1979.....	7.4	7,452	56.60	4,218
1980.....	5.3	5,149	60.60	3,120
1981.....	5.5	5,169	61.40	3,174
1982.....	4.4	3,993	60.50	2,416
MOLOKAI				
1978.....	1.6	1,535	45.40	697
1979.....	1.5	1,477	56.20	830
1980.....	.4	413	59.30	245
1981.....	1.7	1,790	59.50	1,065
1982.....	1.9	2,058	55.10	1,134
OAHU				
1978.....	.8	853	44.10	376
1979.....	1.0	987	58.10	573
1980.....	.7	740	60.00	444
1981.....	.8	843	61.00	514
1982.....	.2	255	59.60	152

¹ Animals fattened on grain or other concentrates which produce a carcass expected to grade good or better.

² Includes custom slaughter for home use on farms where produced but excludes inter-farm sales.

³ Excludes custom slaughter for use on farms where produced.

**CATTLE: Number of range and other slaughter cattle sold, pounds, price, and value,
by islands, 1978-82¹**

Year	Number sold ²	Pounds sold (live weight) ³	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
STATE				
1978.....	30.7	23,331	32.30	7,535
1979.....	29.7	24,827	45.60	11,325
1980.....	28.2	24,883	46.60	11,588
1981.....	26.8	22,766	47.00	10,694
1982.....	26.6	22,482	44.50	9,995
HAWAII				
1978.....	19.2	13,800	31.50	4,347
1979.....	18.2	14,320	47.40	6,785
1980.....	16.9	14,714	47.60	7,002
1981.....	15.3	12,541	45.70	5,736
1982.....	15.7	13,080	42.30	5,537
KAUAI/NIIHAU				
1978.....	3.8	3,340	35.80	1,195
1979.....	3.2	2,961	42.70	1,265
1980.....	3.2	2,914	48.40	1,412
1981.....	3.6	3,191	52.00	1,660
1982.....	3.0	2,638	51.60	1,361
MAUI				
1978.....	4.9	3,335	34.00	1,133
1979.....	4.9	4,101	42.70	1,753
1980.....	5.3	4,361	43.90	1,913
1981.....	4.8	3,992	47.40	1,893
1982.....	5.6	4,633	47.20	2,187
MOLOKAI				
1978.....	.6	504	34.10	172
1979.....	1.0	900	41.90	377
1980.....	.9	711	42.50	302
1981.....	.7	562	47.30	266
1982.....	.8	652	46.90	306
OAHU				
1978.....	2.2	2,352	29.30	688
1979.....	2.4	2,545	45.00	1,145
1980.....	1.9	2,183	43.90	959
1981.....	2.4	2,480	45.90	1,139
1982.....	1.5	1,479	40.80	604

¹ Animals fattened primarily on grass and other roughage; may include some supplementary feeding of grain. Dairy cattle; calves included.

² Includes custom slaughter for home use on farms where produced but excludes interfarm sales.

³ Excludes custom slaughter for use on farms where produced.

**CATTLE: Commercial slaughter and marketings, by class,
State of Hawaii, 1978-82**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
Commercial slaughter ¹													
Number of head -- 1,000 head ²													
1978...	5.7	5.1	6.1	4.9	5.3	5.5	5.1	5.7	5.0	5.1	5.3	5.4	64.2
1979...	5.2	4.4	4.6	4.3	4.7	4.1	4.0	4.4	4.4	4.5	4.6	4.8	54.0
1980...	4.8	4.4	4.6	4.4	4.7	4.5	4.8	4.1	4.3	4.1	3.7	4.8	53.2
1981...	4.0	3.9	4.6	4.4	3.7	4.5	4.7	4.9	5.2	5.1	4.6	5.2	54.6
1982...	4.6	4.1	4.6	4.6	4.6	4.4	4.1	4.5	4.8	4.6	4.7	4.5	54.0
Dressed weight -- 1,000 pounds													
1978...	2,938	2,641	3,139	2,469	2,760	2,849	2,647	2,974	2,682	2,674	2,872	2,877	33,522
1979...	2,713	2,251	2,365	2,253	2,447	2,175	2,144	2,377	2,335	2,424	2,472	2,503	28,459
1980...	2,512	2,352	2,460	2,441	2,468	2,424	2,522	2,173	2,273	2,150	1,942	2,483	28,200
1981...	2,032	2,026	2,394	2,285	1,910	2,344	2,418	2,511	2,720	2,646	2,351	2,676	28,313
1982...	2,342	2,055	2,334	2,392	2,320	2,298	2,129	2,377	2,699	2,506	2,576	2,499	28,527
Marketings ³													
Feedlot steers and heifers, dressed weight -- 1,000 pounds													
1978...	2,077	1,729	1,946	1,584	1,559	1,723	1,721	1,869	1,728	1,584	1,956	1,827	21,303
1979...	1,713	1,415	1,282	1,167	1,255	1,302	1,210	1,254	1,449	1,474	1,401	1,651	16,573
1980...	1,669	1,497	1,374	1,473	1,271	1,229	1,285	1,098	1,063	1,077	924	1,188	15,148
1981...	1,137	951	1,170	1,188	902	1,322	1,410	1,563	1,750	1,672	1,426	1,677	16,168
1982...	1,521	1,234	1,354	1,436	1,412	1,254	1,209	1,337	1,635	1,397	1,441	1,475	16,705
Range steers and heifers, dressed weight -- 1,000 pounds													
1978...	420	444	538	440	541	532	366	524	407	469	399	433	5,513
1979...	503	372	493	460	508	449	475	530	494	519	568	432	5,803
1980...	434	530	579	579	601	635	718	624	632	601	627	575	7,135
1981...	460	706	698	508	461	623	584	546	482	532	450	453	6,503
1982...	427	359	458	580	467	612	501	508	545	581	611	604	6,253
Cows, dressed weight -- 1,000 pounds													
1978...	370	387	542	367	565	513	519	481	455	545	447	527	5,718
1979...	485	469	547	591	666	427	455	570	395	416	498	439	5,958
1980...	427	325	505	371	598	588	504	453	578	472	410	465	5,696
1981...	383	291	420	479	483	352	369	361	426	361	425	441	4,791
1982...	319	380	428	304	400	365	379	485	464	434	430	384	4,772
Bulls, dressed weight -- 1,000 pounds													
1978...	72	85	113	83	96	83	45	101	96	81	68	87	1,010
1979...	83	65	113	105	88	67	74	93	68	86	90	59	991
1980...	55	73	75	91	71	45	88	70	73	74	49	66	830
1981...	84	110	138	142	96	80	88	73	94	113	82	104	1,204
1982...	119	126	137	115	84	110	83	90	98	138	138	80	1,318

¹ Includes custom slaughter for home use. To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.

² Sum of monthly estimates may not add to annual total due to rounding.

³ Excludes custom slaughter for home use and calves shipped out-of-State, but includes on farm sales.

CATTLE: Farm price, by class, State of Hawaii, 1978-82¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
Feedlot steers and heifers, dressed weight -- Cents per pound													
1978...	67.5	70.0	74.5	79.5	84.5	88.0	82.5	79.0	81.5	80.0	76.5	82.0	78.5
1979...	88.0	95.0	105.5	110.5	113.5	108.0	106.0	101.5	105.0	102.5	102.0	102.5	102.5
1980...	107.0	104.5	108.5	106.0	108.0	107.0	110.5	110.5	111.0	111.0	110.0	109.5	108.5
1981...	110.5	110.0	107.5	107.5	114.0	113.5	114.5	110.0	109.5	108.0	105.5	106.5	109.5
1982...	104.5	105.5	107.5	110.0	113.0	114.0	108.0	106.5	104.5	97.5	99.0	97.0	105.5
Range steers and heifers, dressed weight -- Cents per pound													
1978...	55.5	55.5	58.5	64.0	67.0	71.0	67.5	67.0	67.0	66.5	67.0	70.0	64.5
1979...	73.5	78.5	85.5	87.0	87.5	87.5	85.0	82.0	87.5	83.0	84.0	82.5	83.5
1980...	87.0	89.0	89.5	88.0	91.5	90.5	94.0	90.5	90.0	90.0	89.5	91.0	90.0
1981...	94.0	90.5	88.0	91.0	94.0	92.5	95.0	95.0	93.5	92.5	90.5	92.5	92.5
1982...	98.5	95.5	97.5	99.0	93.0	93.0	88.0	87.5	86.5	87.0	78.5	81.0	90.0
Cows, dressed weight -- Cents per pound													
1978...	39.5	41.0	43.5	46.5	52.5	52.5	54.5	55.5	56.5	57.0	57.5	61.5	52.0
1979...	64.0	72.0	77.5	80.5	83.0	82.0	80.5	78.0	76.0	78.0	79.0	78.0	77.5
1980...	77.5	76.5	77.5	79.0	78.5	77.5	79.0	78.5	80.5	79.0	77.5	78.5	78.5
1981...	79.0	80.5	77.5	77.0	78.0	77.0	77.5	78.0	76.0	76.0	75.0	74.5	77.0
1982...	76.0	73.5	73.5	73.5	71.0	74.0	69.0	69.5	69.5	70.5	66.5	66.5	71.0
Bulls, dressed weight -- Cents per pound													
1978...	42.0	43.5	45.5	50.0	54.5	56.5	58.0	61.0	60.0	60.0	63.5	65.0	54.5
1979...	70.0	76.0	82.5	85.5	89.0	84.0	86.0	82.5	81.0	82.5	82.5	82.5	82.0
1980...	82.5	85.5	85.0	84.5	86.0	84.5	85.5	84.0	83.5	85.0	84.0	83.0	84.5
1981...	83.5	84.0	83.5	83.5	83.5	83.0	83.0	82.5	82.5	83.0	83.0	82.5	83.0
1982...	81.0	80.0	79.5	80.0	79.5	77.0	79.0	78.5	76.5	77.5	75.0	76.0	78.5
All cattle, dressed weight -- Cents per pound													
1978...	62.0	62.5	64.5	71.0	73.5	78.0	74.5	72.5	74.5	72.5	72.0	76.0	71.0
1979...	80.5	87.5	94.5	92.5	99.5	98.5	96.0	91.5	96.0	94.0	93.0	95.0	93.5
1980...	98.5	97.0	97.5	97.5	96.5	91.5	99.0	98.0	97.5	98.0	96.5	98.0	97.5
1981...	100.0	98.0	95.0	96.0	99.0	101.5	103.0	101.5	101.0	99.5	96.5	98.0	99.0
1982...	98.5	96.5	98.0	101.5	101.0	100.5	95.5	94.0	94.5	89.5	88.0	88.0	95.0

¹ Prices are for commercial slaughter cattle.

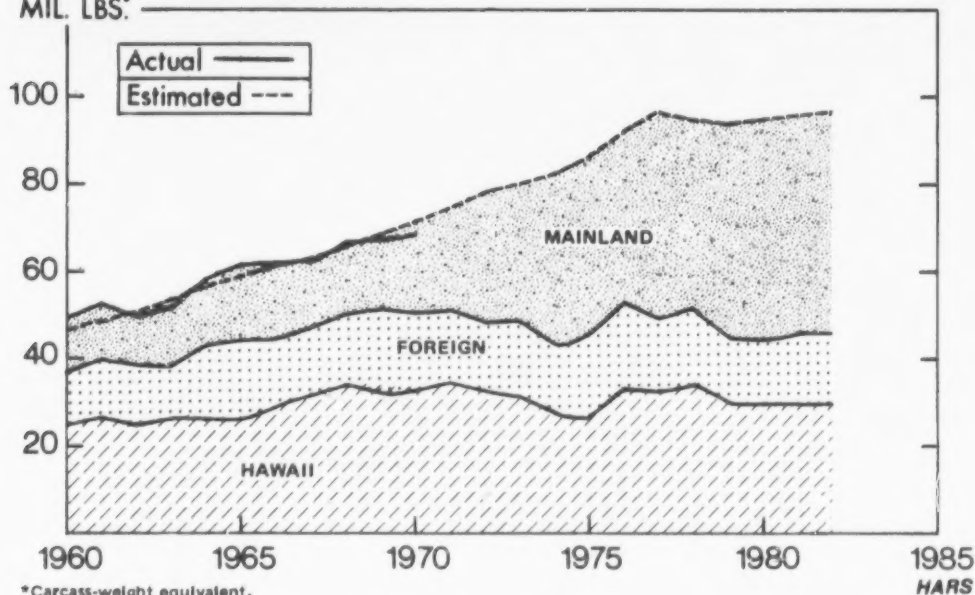
CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 1978-82

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
1,000 head							
1978...	234	64	1	69	2	13	215
1979...	215	66	1	60	1	8	213
1980...	213	72	*	55	1	9	220
1981...	220	72	*	56	1	7	228
1982...	228	71	*	56	2	11	230

* = Less than 50.

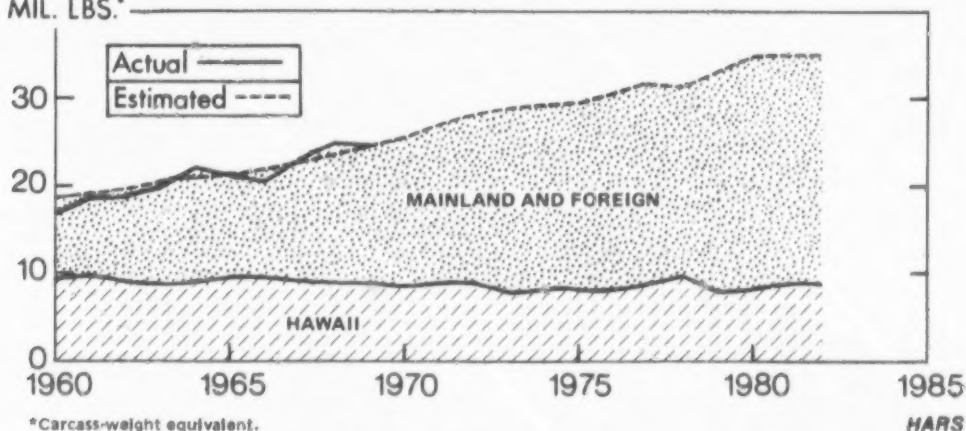
MARKET SUPPLY: Beef and Veal, State of Hawaii, 1960-82

MIL. LBS.*



MARKET SUPPLY: Pork, State of Hawaii, 1960-82

MIL. LBS.*



MARKET SUPPLY: Beef and veal, pork, State of Hawaii, 1972-82

Year	Beef and veal				Pork			
	Mainland	Foreign	Hawaii ¹	Total ²	Mainland	Foreign	Hawaii	Total ²
1,000 pounds (carcass weight equivalent)								
1972..	30,819	15,532	32,183	78,534	19,510	157	8,357	28,024
1973..	31,054	16,910	31,013	78,977	21,179	105	7,433	28,717
1974..	40,237	15,636	27,467	83,340	21,795	24	7,953	29,772
1975..	41,473	17,756	27,000	86,229	21,543	3	7,910	29,456
1976..	39,839	20,414	32,320	92,573	23,287	4	7,781	31,072
1977..	44,645	17,493	32,325	94,463	22,399	2	8,762	31,163
1978..	43,553	17,146	33,544	94,243	22,076	0	9,869	31,945
1979..	47,453	16,030	29,325	92,808	25,796	45	7,785	33,626
1980..	50,348	15,202	28,809	94,359	26,685	133	8,012	34,830
1981..	49,622	16,504	28,666	94,792	25,827	97	8,708	34,632
1982..	51,709	16,273	29,048	97,030	26,392	27	8,557	34,976

¹ Excludes slaughter cattle and calves shipped out-of-State. ² After 1971 total supply was estimated and mainland shipments derived. See page 100 for detailed explanation of the estimating procedure.

**MILK: Number of operations, number of milk cows, production, sales,
price, and value, by islands, 1978-82**

Year	Operations ¹		Annual average milk cows	Milk per cow	Production ²	Sold ²	Average price	Value of sales
	Total	10+ milk cows						
	----- Number -----		Pounds	----- Million pounds -----	Dollars per hundredweight	1,000 dollars		
	STATE							
1978..	70	25	12,900	11,628	150.0	147.3	16.10	23,715
1979..	70	25	12,800	11,719	150.0	147.3	16.90	24,894
1980..	70	24	13,000	11,692	152.0	149.4	18.12	27,071
1981..	70	24	12,700	11,811	150.0	147.9	20.50	30,320
1982..	70	23	12,500	11,520	144.0	106.4	20.59	21,908
	HAWAII/KAUAI/MAUI ³							
1978..	46	6	2,900	10,240	29.7	27.7	15.80	4,375
1979..	46	6	3,000	10,635	31.9	29.8	16.50	4,919
1980..	46	6	3,200	10,031	32.1	30.0	17.84	5,352
1981..	46	7	3,100	10,710	33.2	31.3	19.76	6,184
1982..	46	7	3,100	10,710	33.2	30.8	20.20	6,221
	OAHU							
1978..	24	19	10,000	12,030	120.3	119.6	16.15	19,340
1979..	24	19	9,800	12,050	118.1	117.5	17.00	19,975
1980..	24	18	9,800	12,235	119.9	119.4	18.19	21,719
1981..	24	17	9,600	12,167	116.8	116.6	20.70	24,136
1982..	24	16	9,400	11,785	110.8	75.6	20.75	15,687

¹ At end of year. Difference between "Total" and "10+" is operations having 1-9 milk cows.

² Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.

³ Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

MILK-FEED RATIO, State of Hawaii, 1978-82¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pounds												
1978...	1.93	1.89	1.92	1.89	1.88	1.81	1.83	1.88	1.93	1.91	1.89	1.87
1979...	1.84	1.77	1.77	1.75	1.72	1.78	1.75	1.82	1.86	1.83	1.82	1.85
1980...	1.82	1.76	1.72	1.71	1.69	1.64	1.69	1.75	1.75	1.67	1.63	1.58
1981...	1.51	1.68	1.64	1.65	1.64	1.62	1.67	1.66	1.79	1.83	1.82	1.78
1982...	1.81	1.78	1.62	1.73	1.77	1.72	1.66	1.72	1.79	1.79	1.82	1.70

¹ Pounds of 20-percent dairy feed equal in value to 1 pound of whole milk.

**MILK: Number of cows, milk production, and price,
State of Hawaii, 1978-82**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
Average number of milk cows on hand during month -- 1,000 head													
1978..	13.2	13.0	12.9	12.9	12.9	12.9	12.8	12.7	12.9	13.0	13.1	13.0	12.9
1979..	13.0	12.8	12.7	12.6	12.5	12.5	12.6	12.8	13.0	12.9	12.7	13.1	12.8
1980..	13.0	13.0	13.0	12.9	12.8	12.9	13.0	13.0	13.1	13.1	13.0	13.1	13.0
1981..	13.0	12.9	12.9	12.7	12.7	12.7	12.5	12.5	12.5	12.6	12.7	12.7	12.7
1982..	12.6	12.6	12.5	12.4	12.4	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.5
Average monthly production per all cows in herd -- Pounds													
1978..	950	900	1,035	1,010	1,030	975	1,010	985	935	925	895	955	11,628
1979..	985	910	1,020	1,010	1,060	1,025	1,055	990	890	930	940	945	11,719
1980..	975	955	1,040	1,025	1,095	1,025	990	955	895	915	900	935	11,692
1981..	970	905	1,015	1,030	1,070	1,000	1,030	990	935	950	930	975	11,811
1982..	975	905	1,015	1,015	1,040	975	985	950	910	960	910	935	11,520
Milk production -- Million pounds													
1978..	12.5	11.7	13.3	13.0	13.3	12.6	12.9	12.5	12.1	12.0	11.7	12.4	150
1979..	12.8	11.6	12.9	12.7	13.2	12.8	13.3	12.7	11.6	12.1	11.9	12.4	150
1980..	12.7	12.4	13.5	13.2	14.0	13.2	12.9	12.4	11.7	12.0	11.7	12.3	152
1981..	12.6	11.7	13.1	13.1	13.6	12.7	12.9	12.4	11.7	12.0	11.8	12.4	150
1982..	12.3	11.4	12.7	12.6	12.9	12.0	12.2	11.8	11.3	11.9	11.3	11.6	144
Average price for milk sold to plants -- Dollars per hundredweight													
1978..	16.04	15.78	16.09	16.08	16.10	15.80	15.75	16.08	16.51	16.49	16.50	16.26	16.10
1979..	16.31	16.36	16.32	16.25	16.14	16.51	16.97	17.37	17.73	17.71	17.52	17.78	16.90
1980..	17.84	17.64	17.58	17.55	17.28	16.92	17.76	18.84	19.27	19.19	19.18	18.91	18.12
1981..	19.24	20.97	20.49	20.57	20.56	19.84	20.05	20.32	21.05	21.10	20.95	20.46	20.50
1982..	20.87	20.90	19.04	20.32	20.78	20.63	20.36	20.59	20.99	21.00	20.97	20.45	20.59

**HONEY: Number of operations, colonies, honey and beeswax production, price,
and value, State of Hawaii, 1978-82**

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price ¹		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey	Beeswax
	Number	Thousands	Pounds	----- 1,000 pounds -----		---- Cents per pound ----		----- 1,000 dollars -----	
1978...	28	7	116	812	11	47.6	183.0	387	20
1979...	25	7	130	910	15	47.2	180.0	430	27
1980...	27	7	123	861	20	49.6	172.0	427	34
1981...	28	7	125	875	16	53.3	186.0	466	30
1982...	28	8	105	840	12	55.2	204.0	464	25

¹ Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

HOGS AND PIGS: December 1 inventory by classes and weight, by islands, 1978-82

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
1,000 head							
STATE ¹							
1978...	54	8	46	22	14	8	2
1979...	53	8	45	22	12	9	2
1980...	57	9	48	22	13	10	3
1981...	55	8	47	22	13	9	3
1982...	49	7	42	19	12	8	3
HAWAII							
1978...	5.2	1.0	4.2	2.1	1.2	.8	.1
1979...	5.7	.9	4.8	2.6	1.2	.8	.2
1980...	6.5	1.1	5.4	2.8	1.7	.8	.1
1981...	4.8	.7	4.1	2.1	1.3	.6	.1
1982...	3.8	.6	3.2	1.7	.9	.5	.1
KAUAI							
1978...	2.5	.4	2.1	1.2	.4	.5	*
1979...	3.2	.4	2.8	1.3	.8	.4	.3
1980...	4.5	.8	3.7	1.7	1.0	.7	.3
1981...	5.2	.8	4.4	2.4	1.2	.6	.2
1982...	4.3	.7	3.6	1.8	1.2	.5	.1
MAUI							
1978...	10.1	1.4	8.7	4.1	3.4	1.1	.1
1979...	9.0	1.4	7.6	3.5	1.9	1.8	.4
1980...	9.9	1.5	8.4	3.3	2.6	1.7	.8
1981...	10.1	1.5	8.6	3.5	2.7	1.8	.6
1982...	8.2	1.2	7.0	3.1	2.0	1.4	.5
MOLOKAI/LANAI							
1978...	.9	.1	.8	.4	.2	.1	.1
1979...	.9	.2	.7	.4	.2	.1	*
1980...	.8	.2	.6	.3	.1	.1	.1
1981...	.8	.2	.6	.4	.1	.1	*
1982...	.6	.1	.5	.2	.2	.1	*
OAHU							
1978...	35.3	5.4	29.9	13.7	8.9	5.4	1.9
1979...	34.2	5.5	28.7	14.0	7.7	5.8	1.2
1980...	35.4	5.6	29.8	13.8	7.6	6.2	2.2
1981...	34.5	5.0	29.5	13.5	7.9	6.3	1.8
1982...	32.1	4.5	27.6	12.6	7.8	5.3	1.9

* = Less than 500.

¹ State totals may not add due to rounding.

HOGS: Number of operations, pig crop, number and pounds sold, price, and value, by islands, 1978-82

Year	Number of operations ¹		Pig crop ²		Number sold ³	Pounds sold (live weight) ⁴	Farm price (live weight)	Value of sales
	Total	10+	December-May	June-November				
	---- Number ----		----- 1,000 head -----			1,000 pounds	Dollars per hundredweight	1,000 dollars
STATE ⁵								
1978...	650	480	37	34	71	13,159	60.50	7,961
1979...	650	470	34	37	63	10,380	67.70	7,027
1980...	650	430	39	37	63	10,683	69.80	7,457
1981...	650	420	38	40	69	11,610	72.20	8,382
1982...	650	410	35	36	67	11,409	74.20	8,465
HAWAII								
1978...	85	50	4.4	4.5	8.7	1,587	61.00	968
1979...	80	60	3.8	4.0	6.6	1,112	70.50	784
1980...	80	60	4.1	4.1	6.8	1,239	72.00	892
1981...	70	55	3.7	3.3	7.6	1,263	75.50	954
1982...	75	60	2.6	2.8	5.4	954	79.50	758
KAUAI								
1978...	100	60	2.0	1.4	3.7	656	74.00	486
1979...	110	70	2.3	2.7	3.7	504	77.50	391
1980...	110	60	3.6	3.6	5.6	864	78.00	674
1981...	115	60	3.6	3.8	5.4	938	79.50	746
1982...	115	60	2.9	2.8	5.3	848	80.50	683
MAUI/MOLOKAI								
1978...	110	80	6.9	7.2	12.6	2,505	65.00	1,628
1979...	100	80	6.6	6.6	12.8	2,211	73.50	1,625
1980...	110	75	9.0	7.3	14.4	2,470	75.50	1,865
1981...	110	70	8.7	8.9	15.8	2,787	77.00	2,146
1982...	100	65	7.8	7.1	15.3	2,688	78.50	2,110
OAHU								
1978...	355	290	23.7	20.9	46.0	8,411	58.00	4,879
1979...	360	260	21.7	23.5	40.0	6,553	64.50	4,227
1980...	350	235	22.5	21.8	36.2	6,110	66.00	4,026
1981...	355	235	22.3	23.8	40.0	6,622	68.50	4,536
1982...	360	225	21.7	23.3	41.4	6,919	71.00	4,914

¹ Difference between "Total" and "10+" is operations having a 1-9 hogs; current year number of operations is preliminary.

² Number of pigs born during the 6-month period which were still on hand or were sold.

³ Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers.

⁴ Excludes custom slaughter for use on farms where produced and interfarm sales.

⁵ State totals may not add for number of operations and pig crop due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.

HOGS: Commercial slaughter and farm price, State of Hawaii, 1978-82

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
Number of head -- 1,000 head ^{1 2}													
1978...	3.7	3.6	4.0	4.2	4.0	4.1	4.0	4.2	3.7	3.8	3.6	4.8	47.7
1979...	3.3	3.3	3.5	3.3	3.1	3.2	3.2	2.8	2.6	3.3	3.4	4.4	39.4
1980...	2.9	3.2	3.6	3.6	3.7	3.6	3.7	3.6	3.4	3.5	3.4	4.9	43.1
1981...	3.2	3.1	3.5	3.2	3.5	3.8	3.6	3.6	3.3	3.7	3.5	4.7	42.8
1982...	3.2	3.2	3.6	3.8	3.5	3.7	3.8	3.6	3.3	3.4	3.3	4.6	43.0
Pounds slaughtered -- 1,000 pounds, dressed weight ^{1 3}													
1978...	518	520	568	592	589	574	525	539	475	494	465	639	6,498
1979...	436	434	471	432	397	418	441	386	344	456	482	610	5,307
1980...	401	443	519	518	526	492	524	491	476	488	486	668	6,032
1981...	447	433	484	459	518	544	525	490	466	544	501	674	6,085
1982...	463	456	521	530	490	512	516	482	442	456	477	687	6,032
Farm price -- Cents per pound, dressed weight ⁴													
1978...	79.0	78.5	79.0	78.0	78.5	80.5	82.0	84.0	84.0	83.5	84.5	87.0	80.5
1979...	87.0	89.5	89.5	89.0	91.0	91.5	92.5	92.0	91.5	92.0	92.5	93.5	90.0
1980...	93.0	93.0	92.5	92.5	93.0	91.5	89.5	94.5	94.5	95.0	95.0	94.5	93.0
1981...	95.0	95.5	97.0	97.0	95.0	96.0	96.0	97.5	97.5	97.5	97.5	99.0	96.5
1982...	97.0	97.5	97.5	98.0	96.5	99.0	99.0	99.5	100.5	102.0	101.0		99.0

¹ Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.

² Sum of monthly estimates may not add to annual total due to rounding.

³ To convert dressed weight to live weight: Divide by 0.75 or multiply by a factor of 1.3333.

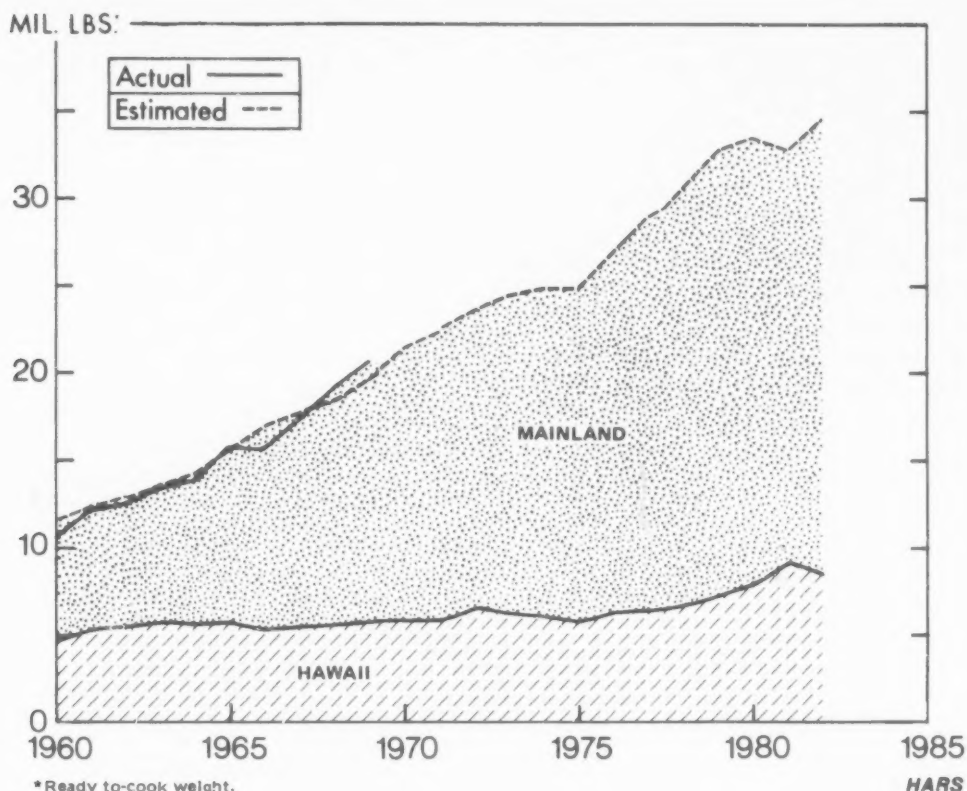
⁴ Annual average price is for marketing year December-November.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1978-82

Year	Inventory December 1 previous year	Annual pig crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory December 1
1,000 head							
1978...	62	71	*	71	3	5	54
1979...	54	71	*	63	3	6	53
1980...	53	76	*	63	3	6	57
1981...	57	78	*	69	4	7	55
1982...	55	71	*	67	4	6	49

* = Less than 500 head.

MARKET SUPPLY: Chickens and Broilers, State of Hawaii, 1960-82



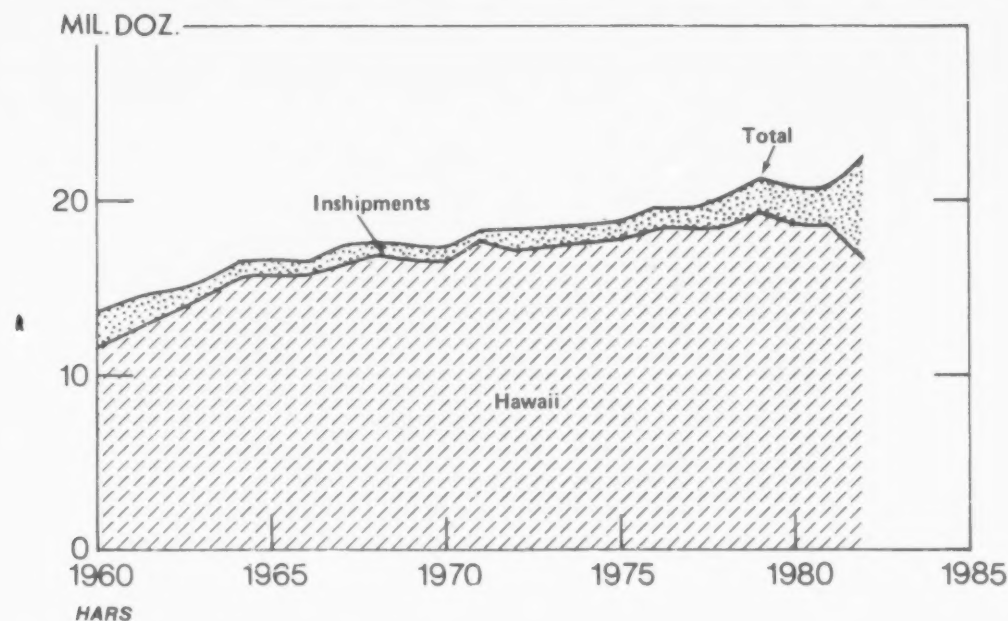
MARKET SUPPLY: Poultry meat, State of Hawaii, 1973-82

Commodity	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
1,000 pounds (ready-to-cook weight)										
Broilers:										
Inshipments..	18,082	18,981	19,242	21,016	22,643	23,682	25,795	25,455	23,850	26,357
Hawaii.....	5,027	4,987	4,697	5,200	5,180	5,816	5,896	6,569	7,673	7,534
Total.....	23,109	23,968	23,939	26,216	27,823	29,498	31,691	32,024	31,523	33,891
Other chickens:										
Hawaii.....	1,004	866	962	921	978	970	1,240	1,321	1,373	1,037
Total chickens:										
Inshipments..	18,082	18,981	19,242	21,016	¹ 22,643	¹ 23,682	¹ 25,795	25,455	23,850	26,357
Hawaii.....	6,031	5,853	5,659	6,121	6,158	6,786	7,136	7,890	9,046	8,571
Total ²	24,113	24,834	24,901	27,137	¹ 28,801	¹ 30,468	¹ 32,931	33,345	32,896	34,928
Turkeys:										
Inshipments..	3,597	3,747	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not available.

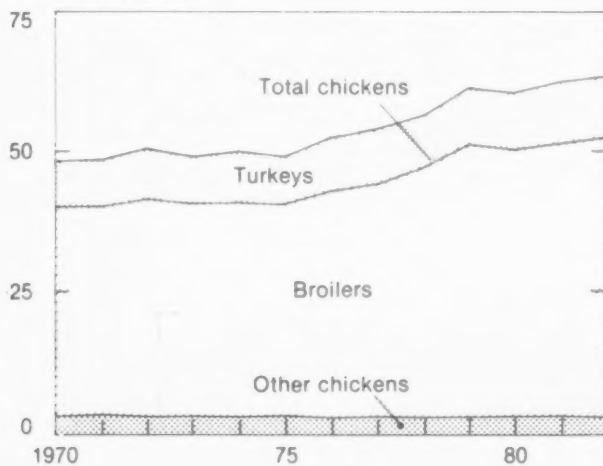
¹ Beginning 1970 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MARKET SUPPLY: Eggs, State of Hawaii, 1960-82

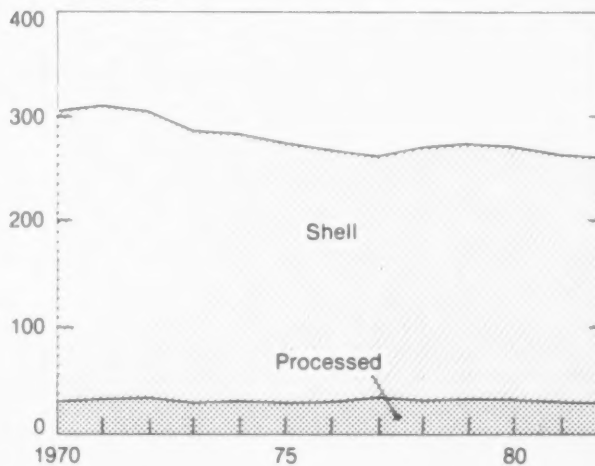


U.S. Per Capita Consumption of Poultry and Eggs

Pounds of poultry



Number of eggs



1981 preliminary, 1982 forecast. Poultry is ready-to-cook weight. Processed eggs converted to shell equivalent.

USDA

MARKET SUPPLY: Eggs, State of Hawaii, 1978-82

Commodity	1978	1979	1980	1981	1982
1,000 dozens					
Eggs, shell:					
Inshipments.....	1,914	1,956	2,371	2,464	5,400
Hawaii.....	18,158	19,108	18,375	18,442	16,850
Total.....	20,072	21,064	20,746	20,906	22,250

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

CHICKENS: December 1 inventory by class, by islands, 1978-82

Year	All chickens (excluding broilers)	Number of layers			Non-laying pullets		Other chickens (excluding broilers)
		Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	
	Thousands						
	STATE						
1978.....	1,333	619	406	1,025	131	177	*
1979.....	1,306	658	341	999	147	160	*
1980.....	1,314	593	414	1,007	175	132	*
1981.....	1,242	538	401	939	136	167	*
1982.....	1,148	589	260	849	115	184	*
	HAWAII						
1978.....	92	23	41	64	7	21	*
1979.....	1	1	1	1	1	1	1
1980.....	1	1	1	1	1	1	1
1981.....	1	1	1	1	1	1	1
1982.....	1	1	1	1	1	1	1
	KAUAI/MAUI/MOLOKAI ²						
1978.....	99	57	24	81	6	12	*
1979.....	¹ 178	¹ 68	¹ 75	¹ 143	¹ 10	¹ 25	¹ *
1980.....	¹ 196	¹ 81	¹ 66	¹ 147	¹ 24	¹ 25	¹ *
1981.....	¹ 159	¹ 69	¹ 57	¹ 126	¹ 17	¹ 16	¹ *
1982.....	¹ 177	¹ 83	¹ 68	¹ 151	¹ 12	¹ 14	¹ *
	OAHU						
1978.....	1,142	539	341	880	118	244	*
1979.....	1,128	590	266	856	137	135	*
1980.....	1,118	512	348	860	151	107	*
1981.....	1,083	469	344	813	119	151	*
1982.....	971	506	192	698	103	170	*

* = Less than 500.

¹ Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

² Kauai and Maui/Molokai combined to avoid disclosure on individual operations.

EGG-TYPE PULLET CHICK PLACEMENTS, State of Hawaii, 1978-82¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1,000 chicks													
1978...	83	44	56	82	8	113	12	77	52	19	115	11	672
1979...	87	32	105	62	5	42	113	54	100	10	51	30	691
1980...	58	59	37	34	95	30	131	13	59	58	13	87	674
1981...	94	24	60	51	52	72	19	58	71	81	27	41	650
1982...	85	17	83	14	40	92	16	74	54	52	94	20	641

¹ Inshipments plus local hatch.

**CHICKENS: December 1 number of operations, sales, price, and value,
by islands, 1978-82¹**

Year	Operations	Number sold	Pounds sold (live weight) ²	Average price (live weight) ³	Value of sales
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
STATE					
1978.....	60	396	1,386	14.0	194
1979.....	60	479	1,772	15.5	275
1980.....	60	510	1,887	12.7	240
1981.....	55	530	1,961	12.4	243
1982.....	55	436	1,482	11.3	167
HAWAII/KAUAI/MAUI/MOLOKAI⁴					
1978.....	34	63	225	28.0	63
1979.....	34	75	278	27.3	76
1980.....	34	57	202	26.7	54
1981.....	32	66	240	30.3	73
1982.....	34	66	232	35.5	82
OAHU					
1978.....	26	333	1,161	11.3	131
1979.....	26	404	1,494	13.3	199
1980.....	26	453	1,685	11.0	186
1981.....	23	464	1,721	9.9	170
1982.....	21	370	1,250	6.8	85

¹ Data are for December-November marketing year.

² To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.

³ Equivalent delivered processing plant.

⁴ Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

CHICKENS: Slaughter and price, State of Hawaii, 1978-82¹

Month	Number sold					Pounds sold (live weight) ²					Average farm price (live weight) ³				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	----- 1,000 birds -----					----- 1,000 pounds -----					----- Cents per pound -----				
December.....	32	29	42	35	28	88	100	162	139	93	15.0	19.0	13.5	15.0	14.0
January.....	38	38	44	41	39	95	148	164	141	137	16.0	15.0	15.0	13.5	9.0
February.....	26	54	39	45	46	95	205	149	161	144	14.0	14.0	13.0	14.0	9.0
March.....	22	29	27	48	37	84	104	102	179	131	15.5	17.5	13.0	14.5	12.0
April.....	28	30	35	38	33	96	108	132	162	128	17.0	17.0	12.5	13.0	14.0
May.....	42	47	42	52	19	141	180	159	198	62	13.0	16.5	12.5	12.5	20.5
June.....	40	29	16	50	38	147	101	54	181	133	13.0	17.0	18.0	14.0	13.5
July.....	44	46	37	42	50	158	182	127	150	176	11.5	13.5	15.0	12.0	9.5
August.....	31	37	37	48	31	110	146	135	179	100	14.5	16.5	13.5	10.0	11.5
September.....	27	38	49	45	59	121	139	195	166	190	12.5	16.5	12.5	9.5	10.0
October.....	32	58	91	36	16	125	206	317	129	58	13.0	14.0	9.0	10.5	12.0
November.....	34	44	51	50	40	126	153	191	176	130	17.0	14.0	13.0	10.0	9.0
Total or average	396	479	510	530	436	1,386	1,772	1,887	1,961	1,482	14.0	15.5	12.7	12.4	11.3

¹ Data are for December-November marketing year.

² To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.

³ Equivalent delivered processing plant.

EGGS: December 1 number of operations, number of layers, production, sales, price, and value, by islands, 1978-82 ¹

Year	Operations with layers		Average number of layers	Average production per layer	Production ³	Average price ⁴	Value of sales
	Total ²	100+					
	----- Number -----		1,000 birds	Eggs	Million eggs	Cents per dozen	1,000 dollars
	STATE ⁵						
1978...	60	32	1,007	216	217.9	69.9	12,699
1979...	60	27	1,039	220	229.3	73.4	14,007
1980...	60	26	1,035	214	220.5	75.7	13,910
1981...	55	24	980	226	221.3	82.2	15,159
1982...	55	21	914	221	202.2	86.3	14,542
	HAWAII						
1978...	23	5	58	228	13.2	78.0	858
1979...	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6
1980...	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6
1981...	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6
1982...	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6	⁶ 6
	KAUAI/MAUI/MOLOKAI ⁷						
1978...	11	6	83	218	17.9	79.0	1,178
1979...	⁶ 34	⁶ 9	⁶ 141	⁶ 225	⁶ 31.7	⁶ 81.5	⁶ 2,151
1980...	⁶ 34	⁶ 7	⁶ 141	⁶ 209	⁶ 29.4	⁶ 87.5	⁶ 2,143
1981...	⁶ 32	⁶ 7	⁶ 128	⁶ 223	⁶ 28.6	⁶ 97.5	⁶ 2,322
1982...	⁶ 34	⁶ 7	⁶ 135	⁶ 208	⁶ 28.1	⁶ 101.5	⁶ 2,382
	OAHU						
1978...	26	21	866	216	186.8	68.5	10,663
1979...	26	18	898	220	197.6	72.0	11,856
1980...	26	19	894	214	191.1	74.0	11,767
1981...	23	17	852	226	192.7	80.0	12,837
1982...	21	14	779	223	174.1	84.0	12,160

¹ Annual number of layers, egg production, sales, price, and value are a December-November marketing year.

² Difference between "Total" and "100+" is operations having 1-99 layers.

³ Home consumption less than 0.5 million eggs included.

⁴ Equivalent delivered processing plant.

⁵ Sum of island estimates may not add to State total due to rounding.

⁶ Hawaii, Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

⁷ Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

EGGS: Number of layers, production, and price, State of Hawaii, 1978-82

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average ¹
Average number of layers on hand during month -- 1,000 layers													
1978..	997	994	999	1,006	1,006	999	998	1,006	1,022	1,028	1,024	1,023	1,007
1979..	1,028	1,025	1,038	1,060	1,043	1,036	1,044	1,059	1,069	1,039	1,005	1,015	1,039
1980..	1,021	1,034	1,053	1,052	1,050	1,051	1,052	1,044	1,037	1,011	997	1,014	1,035
1981..	1,021	1,023	1,006	980	967	962	973	968	953	950	945	931	980
1982..	924	918	918	932	935	926	915	912	902	889	868		914
Egg production -- Million eggs ²													
1978..	18.3	16.8	18.8	17.7	18.3	17.7	18.3	18.2	17.6	19.0	18.8	18.8	217.9
1979..	19.1	17.6	20.4	19.9	20.2	18.7	19.1	19.4	19.1	19.2	17.8	18.5	229.3
1980..	17.7	17.1	19.3	18.7	19.8	19.1	19.2	18.8	17.5	17.5	17.3	18.5	220.5
1981..	19.6	18.2	19.4	18.5	18.8	17.6	18.4	18.9	17.9	18.1	17.4	17.7	221.3
1982..	18.0	16.2	17.1	16.7	18.0	17.1	16.7	16.4	16.2	16.7	15.4		202.2
Average farm price -- Cents per dozen ³													
1978..	67.5	69.5	68.5	68.5	70.5	70.5	70.5	71.0	69.5	71.5	72.5	71.0	69.9
1979..	71.0	76.0	76.0	79.0	77.5	74.0	75.0	74.0	70.0	68.0	68.5	69.5	73.4
1980..	71.5	73.5	77.5	79.5	78.0	79.5	77.0	76.0	75.0	75.5	74.0	82.0	75.7
1981..	81.5	82.5	83.0	83.5	82.5	81.0	81.0	81.0	81.0	85.0	82.0	84.0	82.2
1982..	84.0	86.5	86.5	86.5	86.5	87.0	89.0	87.5	87.0	84.5	87.5		86.3

¹ Annual data are for a December-November marketing year.

² Annual totals may not add due to rounding.

³ Equivalent delivered processing plant.

EGG-FEED RATIO, State of Hawaii, 1978-82 ¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pounds												
1978...	8.1	8.3	8.2	7.5	7.6	7.7	7.5	7.7	7.7	7.9	8.0	7.8
1979...	7.6	8.0	7.9	8.1	7.9	7.4	7.1	7.1	6.6	6.3	6.4	6.5
1980...	6.7	6.8	7.2	7.4	7.3	7.4	7.0	6.6	6.4	6.2	5.9	6.4
1981...	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.1	6.8	7.0
1982...	7.0	6.9	6.9	6.9	7.1	7.2	7.4	7.4	7.6	7.3	7.8	7.5

¹ Number of pounds of laying feed, equivalent in value to 1 dozen eggs.

BROILER-TYPE CHICK PLACEMENTS, State of Hawaii, 1978-82 ¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1,000 chicks													
1978...	185	186	201	179	209	210	146	223	165	171	205	77	2,157
1979...	200	134	178	184	217	153	182	221	208	245	170	175	2,267
1980...	237	190	219	252	215	241	240	215	210	223	258	268	2,768
1981...	294	238	250	286	219	251	293	208	250	220	238	297	3,044
1982...	219	335	264	245	240	251	268	216	272	271	244	299	3,124

¹ Inshipments plus local hatch.

**BROILERS: December 1 number of operations, sales, price, and value,
State of Hawaii, 1978-82 ¹**

Year	Operations	Number sold ²	Pounds sold (live weight) ^{2 3}	Average price (live weight) ⁴	Value of sales ²
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
1978.....	10	2,281	7,755	40.5	3,141
1979.....	10	2,246	7,861	43.0	3,380
1980.....	10	2,576	8,758	45.0	3,941
1981.....	10	3,009	10,231	49.5	5,064
1982.....	10	3,044	10,045	50.5	5,073

¹ Data are for December-November marketing year.

² Includes home consumption which is less than 1 percent of production.

³ To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.

⁴ Equivalent delivered processing plant.

BROILERS: Slaughter and price, State of Hawaii, 1978-82 ¹

Month	Number sold ²					Pounds sold (live weight) ^{2 3}					Average farm price (live weight) ⁴				
	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982	1978	1979	1980	1981	1982
	1,000 birds					1,000 pounds					Cents per pound				
December.....	202	195	213	239	274	798	751	681	783	906	41.0	39.0	43.0	49.0	51.0
January.....	200	222	206	259	252	789	868	685	887	903	40.0	41.5	44.0	48.0	50.0
February.....	183	139	186	236	270	571	519	629	799	831	39.0	42.5	46.5	48.5	50.5
March.....	199	194	190	253	284	668	635	626	891	883	40.5	44.0	47.5	48.5	50.5
April.....	168	173	198	289	268	562	548	667	1,015	834	39.5	44.0	46.5	49.5	50.0
May.....	221	197	240	257	232	601	701	872	850	816	40.0	44.0	44.5	50.0	51.5
June.....	166	187	220	248	269	484	627	757	799	886	41.5	44.0	45.0	51.0	51.0
July.....	169	185	252	250	227	532	611	782	899	752	42.0	41.5	43.5	50.5	50.0
August.....	212	195	216	248	235	721	662	784	847	786	41.0	43.0	43.0	50.0	51.0
September.....	177	167	219	230	258	587	558	758	778	854	41.5	45.0	44.5	49.5	50.5
October.....	222	212	235	248	256	886	710	829	834	849	42.5	43.5	46.0	49.5	50.0
November.....	162	180	201	252	219	556	671	688	849	745	42.0	45.0	47.0	49.5	50.0
Total or average...	2,281	2,246	2,576	3,009	3,044	7,755	7,861	8,758	10,231	10,045	40.5	43.0	45.0	49.5	50.5

¹ Data are for December-November marketing year.

² Includes home consumption which is less than 1 percent of production.

³ To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.

⁴ Equivalent delivered processing plant.

BROILER-FEED RATIO, State of Hawaii, 1978-82 ¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Pounds											
1978...	3.8	3.7	3.7	3.4	3.4	3.6	3.6	3.6	3.7	3.7	3.6	3.5
1979...	3.5	3.6	3.6	3.6	3.4	3.4	3.7	3.7	3.5	3.4	3.5	3.3
1980...	3.4	3.5	3.7	3.5	3.4	3.4	3.2	3.0	3.0	3.1	3.0	3.1
1981...	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5
1982...	3.4	3.2	3.2	3.2	3.3	3.3	3.3	3.5	3.4	3.3	3.5	3.6

¹ Number of pounds of broiler grower equal in value to 1 pound of broiler live weight.

SEED CORN: Number of farms, acreage used for crop, acreage harvested, outshipments, and value, State of Hawaii, 1978-82

Crop year November-June	Farms	Acreage used for crop	Acreage harvested			Outshipments of seed	Value
			Nursery	Observation	Seed increase		
	Number	----- Acres -----				1,000 pounds	1,000 dollars
1978-79.....	6	480	240	90	190	270	1,740
1979-80.....	5	510	250	100	160	290	2,100
1980-81.....	5	550	280	120	170	350	2,410
1981-82.....	5	600	250	135	215	280	2,990
1982-83.....	5	660	280	165	215	250	3,275

**FEED CROPS: Acreage, production, sales, and value,
State of Hawaii, 1978-82 ¹**

Year	Acreage harvested	Production	
		Quantity	Value
	Acres	1,000 tons	1,000 dollars
1978.....	5,270	67.9	1,484
1979.....	3,516	68.2	1,457
1980.....	4,702	74.1	1,691
1981.....	6,495	90.8	2,117
1982.....	8,705	35.4	1,376

¹ Includes grains, grass and legume crops, and pineapple green chop.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1978-82

Kind of feed	Unit	1978	1979	1980	1981	1982
		Dollars				
Chick starter.....	Ton	198	220	245	275	262
Broiler grower.....	Ton	225	255	280	305	302
Laying feed.....	Ton	179	205	225	250	239
Dairy feed, 20-percent protein.....	Ton	171	188	215	240	236
Rolled barley.....	Ton	144	158	196	208	194
Rolled corn.....	Ton	144	166	193	211	195
Alfalfa cubes.....	Ton	125	143	191	183	181
Pineapple bran.....	Ton	91	94	108	131	141
Cottonseed meal, 41-percent protein.....	100 pounds	12.50	15.00	14.60	16.30	16.20
Hog feed, 14-18 percent protein.....	100 pounds	9.60	10.00	12.50	13.60	13.80
Beef cattle feed, 10-20 percent protein.....	100 pounds	8.90	9.40	10.90	12.20	13.30
Stock salt.....	100 pounds	5.40	5.80	5.80	5.60	7.60

¹ Beginning in 1982 price is for Alfalfa Pellets.

**FEED PRICES: Average price paid by farmers for feed,
State of Hawaii, 1980-82**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Dollars per ton												
CHICK STARTER												
1980..	230	230	230	230	230	230	240	250	260	270	275	280
1981..	280	280	280	280	280	280	275	275	270	265	265	265
1982..	265	265	265	265	270	265	265	260	260	255	250	260
BROILER GROWER												
1980..	260	265	260	265	265	265	275	290	300	295	315	320
1981..	320	310	310	310	310	310	305	305	300	295	295	295
1982..	295	315	315	315	310	305	305	295	295	300	285	290
LAYING FEED												
1980..	215	215	215	215	215	215	220	230	235	245	250	255
1981..	255	255	255	255	255	250	250	250	250	240	240	240
1982..	240	250	250	250	245	240	240	235	230	230	225	230
DAIRY FEED, 20-PERCENT PROTEIN												
1980..	196	200	205	205	205	205	210	215	220	230	235	240
1981..	255	250	250	250	250	245	240	245	235	230	230	230
1982..	230	235	235	235	235	240	245	240	235	235	230	240
ROLLED BARLEY												
1980..	178	183	183	180	188	185	205	205	200	210	215	215
1981..	225	215	215	215	220	220	205	205	197	194	194	193
1982..	192	200	199	198	205	205	203	197	185	179	180	182
ROLLED CORN												
1980..	175	175	175	173	181	184	205	205	210	210	210	215
1981..	220	215	215	215	215	220	215	215	215	196	197	189
1982..	191	195	195	195	204	204	201	202	192	185	187	190
ALFALFA PELLETS ¹												
1980..	165	183	200	200	200	193	193	193	193	194	188	187
1981..	190	195	195	180	184	183	186	176	176	176	176	176
1982..	176	177	182	186	182	181	183	178	178	184	184	184
PINEAPPLE BRAN												
1980..	100	105	105	105	110	110	112	112	112	112	112	106
1981..	112	112	123	131	131	131	132	137	135	142	142	142
1982..	142	142	142	142	142	142	140	140	140	140	140	140
COTTONSEED MEAL, 41-PERCENT PROTEIN -- 100 pounds												
1980..	13.50	14.00	14.60	14.50	14.50	14.70	14.70	15.00	14.50	15.50	15.00	15.30
1981..	15.40	15.40	15.10	14.80	15.90	15.90	17.50	16.50	16.50	17.50	17.50	17.50
1982..	17.50	17.00	17.50	17.50	17.00	15.00	14.50	15.00	15.00	15.00	17.00	16.50

¹ Data prior to 1981 are for alfalfa cubes.

FEED: Inshipments from all sources, State of Hawaii, 1978-82

Commodity	1978	1979	1980	1981	1982
	Tons				
Feed Grains					
Barley	11,299	20,763	12,558	20,506	4,008
Corn	44,133	38,137	39,757	37,688	62,109
Oats	366	208	236	186	186
Sorghum	14,350	10,733	180	2,454	168
Wheat	2,392	4,435	864	6,183	1,073
Total	72,540	74,276	53,595	67,017	67,544
Mixed Feeds					
Calf	806	511	453	366	317
Cattle	10,508	7,183	5,802	7,129	3,450
Dairy	10,293	12,419	12,133	9,497	10,270
Horse	1,968	1,828	1,458	1,347	1,018
Pigeon	841	717	698	537	496
Poultry (including scratch)	5,089	6,276	6,412	6,762	6,084
Rabbit	147	58	50	30	18
Swine	4,572	3,690	3,539	3,608	3,223
Other mixed	870	559	106	395	115
Total	35,094	33,241	30,651	29,671	24,991
Alfalfa Products					
Cubes, pellets, and hay	23,918	22,657	15,250	22,713	26,056
Protein Feeds					
Cottonseed products	14,594	10,854	11,549	14,401	12,778
Cottonseed, whole	2,547	2,197	4,738	4,362	5,472
Meat and bone meal	¹ 3,367	¹ 3,067	¹ 2,062	¹ 1,516	¹ 1,713
Soybean meal	¹ 6,831	8,670	8,412	8,308	8,181
Other protein	0	277	39	103	167
Total	27,339	25,065	26,800	28,690	28,311
Other Feedstuff					
Almond hulls and pellets	5,139	2,144	2,418	3,123	4,891
Beet pulp and pellets	475	674	0	802	1,980
Copra pellets	0	² 624	² 2,813	² 1,883	² 1,595
Cottonseed hulls and pellets	4,418	2,265	1,413	1,300	2,808
Grain screenings and pellets	0	2,044	6,694	13,234	2,818
Mill run	23	³	0	0	0
Other mill feeds	³	11	48	0	0
Whey	54	59	76	92	68
Yeast	139	²	18	20	21
Miscellaneous/unspecified	304	205	1,936	3,465	6,763
Total	10,552	8,049	15,416	23,919	20,944
Total Feed Inshipments	169,443	163,288	141,712	172,010	167,846

¹ Includes foreign.

² Foreign.

³ Receipts not specifically identified; included under Miscellaneous/unspecified.

Source: Market News Service, Hawaii Department of Agriculture.

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1978-82

Item	1978	1979	1980	1981	1982
Dollars					
Building Materials:					
Framing lumber, 2" x 4", fir, standard and better, per 1,000 bd. ft.	540.00	590.00	615.00	570.00	530.00
Boards, per 1,000 bd. ft.:					
Rough, for farm fences and construction ..	630.00	760.00	795.00	750.00	745.00
Rough, redwood	NA	NA	NA	1,075.00	1,080.00
Dressed, 1", pine, S ₄ S, standard and better or No. 2 and better	540.00	620.00	730.00	730.00	725.00
Roofing:					
Asphalt shingles, 3 in 1 mineral surface, approximately 240 lbs., per square	39.50	44.00	54.00	54.00	52.00
Galvanized steel, 26 gauge, per 100 square feet	105.00	105.00	110.00	105.00	96.00
Plywood, exterior glue, ½", C-D-X, per 4' x 8' sheet	¹ 520.00	16.50	16.50	16.00	14.50
Concrete blocks, 8" x 8" x 16", per 100.	96.00	105.00	115.00	122.00	127.00
Portland cement, per 94 lbs. net, each.	5.20	6.10	7.80	8.70	9.40
Equipment and Supplies:					
Iron pipe, galvanized:					
1½" I. D., per foot	NA	NA	NA	1.83	1.90
1¼" I. D., per foot	1.15	1.30	1.40	1.57	1.59
PVC pipe, per lin. foot:					
1", I. D.	NA	NA	NA	.44	.47
2", I. D.	NA	NA	NA	.83	.86
Barbed wire, galvanized, 12½-gauge, 4-point, per 80-rod spool	40.50	42.00	45.00	51.00	51.50
Stock fence (woven wire), 6" stay wire spacing, 12½-gauge wire, 32" high, per 20-rod roll	81.00	86.00	97.00	105.00	125.00
Steel post, line fence, each	3.55	3.75	4.00	4.25	4.95
Polypropylene shade cloth, per square foot:					
73%, 10' width	NA	NA	NA	.17	.18
78%, 20' width	NA	NA	NA	.19	.21
Hand sprayer, pressure, 3-4 gallon capacity, each.	28.00	31.00	35.50	42.00	42.00
Knapsack, sprayer, pressure, stainless steel, 5 gallon, each	NA	NA	NA	145.00	149.00
Rope, polypropylene, ½", per 100 feet.	NA	NA	19.00	22.00	21.00
Nails, 8d, common, per pound	.87	.90	.96	1.05	1.20
Fertilizer Materials:					
Concentrated superphosphate, 44-46 percent P ₂ O ₅ , per ton	245.00	270.00	330.00	340.00	340.00
Sulphate of ammonia, per ton	165.00	175.00	195.00	230.00	238.00
Urea (45-46% N), per ton	240.00	235.00	295.00	310.00	330.00
Mixed Fertilizers:					
18-46-0, per ton	305.00	305.00	390.00	395.00	395.00

See footnote at end of table.

Continued

**Prices paid by Hawaii farmers, selected items, annual average,
State of Hawaii, 1978-82 -- Continued**

Item	1978	1979	1980	1981	1982
Dollars					
Petroleum Products, Motor Supplies and Services:					
Gasoline, per gallon (including Federal, State, and local taxes):					
Price, service station (unleaded)	.79	1.00	1.36	1.59	1.56
Price, bulk delivery (leaded, regular)	.64	.80	1.13	1.31	1.26
Diesel fuel, per gallon	.47	.67	1.02	1.21	1.18
Motor oil, per gallon:					
Regular (non-detergent)	1.75	2.40	2.60	3.75	3.55
Heavy duty (detergent)	2.05	2.60	2.80	3.85	3.80
All-weather (high detergent)	2.30	2.95	3.15	4.05	4.30
Auto tires (tubeless):					
Radial, steel-belted, size P195/75R14, ER78-14, each.	74.00	79.00	83.00	86.00	83.00
Bias-belted, size E78-14, each ²	45.50	54.00	61.00	63.00	56.00
Truck tires, each:					
7.00-15, 6-ply	53.00	63.00	74.00	77.00	76.00
9.00-20, 10-ply	NA	150.00	195.00	245.00	³
Storage batteries, auto and light commercial 12 volt, cranking performance rating (CPR) (BCI STD):					
CPR 220-310 amps	42.50	48.50	57.00	58.00	58.00
CPR 315-500 amps	53.00	62.00	73.00	75.00	75.00

- ¹ Per 1,000 square feet prior to 1979.
² Prior to 1981 G78-15.
³ Item dropped from survey.

**FERTILIZER: Consumption by kind and primary nutrients,
State of Hawaii, year ended June 30, 1978-82**

State of Hawaii, year ended June 30, 1978-82							
Year	Mixtures	Direct application materials		Total	Primary nutrients		
		Primary nutrients	Secondary and micro-nutrients		N	Available P ₂ O ₅	K ₂ O
	Tons						
1978...	133,792	57,705	2,248	193,745	28,785	29,952	23,324
1979...	119,866	58,783	2,456	181,105	26,173	25,789	28,224
1980...	108,590	58,527	2,291	169,409	23,126	19,246	20,901
1981...	102,546	46,863	728	150,137	18,907	13,629	21,963
1982...	100,797	54,627	1,015	156,439	22,086	11,010	24,134

**FERTILIZER: Consumption chemical nitrogen materials, State of Hawaii,
year ended June 30, 1978-82**

Year	Ammonia		Ammonium		Nitrogen solution	Sodium nitrate	Urea	Other	Secondary and micro-nutrients
	Anhydrous	Aqua	Nitrate	Sulfate					
	Tons								
1978...	0	15,660	0	8,013	0	0	9,670	183	2,248
1979...	0	1,965	713	1,549	0	24	20,757	53	2,456
1980...	0	11,889	0	1,197	20,533	9	8,379	73	2,069
1981...	0	2,413	0	1,231	10,115	3	3,618	104	728
1982...	0	382	0	785	18,279	0	4,035	1,952	1,015

**FERTILIZER: Consumption phosphate and potash materials, State of Hawaii,
year ended June 30, 1978-82**

year ended June 30, 1978-79

Year	Phosphate					Potash		Natural organics
	Superphosphates		Phosphate rock ¹	Ammonium phosphates	Other	Chlorides 50% - 62%	Other	
	22% and under	Over 22%						
	Tons							
1978...	201	5,916	1,358	210	4,770	4,869	6,853	2
1979...	0	5,416	1,041	1,024	6,657	18,223	1,361	0
1980...	0	3,334	1,303	165	6,470	2,714	14,742	0
1981...	0	4,419	327	0	7,789	1,153	15,691	0
1982...	0	614	188	33	9,901	2,931	15,527	0

¹ Includes colloidal phosphate.

AGRICULTURAL EMPLOYMENT: Workers on farms, State of Hawaii, annual averages, 1978-82 ¹

Year	Total farm employment			Hired workers by type of farm		
	Self employed farm operators	Unpaid family members	Hired workers	Sugar	Pineapple	Other
1978...	2,890	1,810	11,600	4,950	2,520	4,100
1979...	3,020	1,520	10,800	4,950	2,520	3,300
1980...	3,400	1,100	10,550	4,840	2,510	3,200
1981...	3,100	900	10,500	4,875	1,975	3,650
1982...	2,600	1,300	13,000	4,900	3,750	4,350

¹ Quarterly survey discontinued May 1981. Averages for 1981 are only for January and April quarters and therefore not comparable with previous years. Data for 1982 is based on annual survey for week of July 11 - 17.

AGRICULTURAL EMPLOYMENT: Total workers on farms, State of Hawaii

Island	July 1980, week of 6 - 12			July 1982, week of 11 - 17		
	Self-employed farm operators	Unpaid family members ¹	Hired workers	Self-employed farm operators	Unpaid family members ¹	Hired workers
Hawaii.....	1,950	500	3,400	1,700	800	3,950
Kauai.....	150	50	1,550	100	100	1,500
Maui/Mol./Lanai.	400	100	4,200	300	100	4,400
Oahu.....	700	150	3,050	500	300	3,125
State ²	3,200	800	12,200	2,600	1,300	13,000

¹ Includes family members working 15 or more hours per week.

² Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Hired workers by type of farm, State of Hawaii

Island	July 1980, week of 6 - 12			July 1982, week of 11 - 17		
	Sugar	Pineapple	Other	Sugar	Pineapple	Other
Hawaii.....	1,450	--	1,950	1,550	--	2,400
Kauai.....	1,450	--	100	1,350	--	150
Maui/Mol./Lanai.....	1,200	2,550	450	1,200	2,500	700
Oahu.....	800	1,450	800	800	1,225	1,100
State ¹	4,900	4,000	3,300	4,900	3,750	4,350

¹ Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Wage rates, State of Hawaii¹

Type of work performed	July 6 - 12, 1980	July 11 - 17, 1982
	----- Dollars per hour -----	
Field workers.....	4.78	5.88
Livestock workers.....	5.07	5.85
Supervisors.....	7.92	9.59
Others.....	6.06	7.66

¹ Perquisites such as room and board, housing, etc., are provided some workers in all categories in addition to wage rates shown.

DEFINITION OF TERMS

Agriculture: All operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally shipper's dock.

Farm: A place with estimated (or expected) annual sales of agricultural products of at least \$1,000.

Livestock operation: A place that has one or more head of the species on hand at any time during the year. Does not have to meet farm definition.

Crop production: Estimated production is the amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

Livestock production: Estimated amount of livestock and livestock products sold. Includes allowance for amount used on farms where produced.

Farm price: A computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for definition of pricing point.

Market supply: Includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Reporting Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Crop Reporting Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Reporting Service conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership. Vegetable and poultry surveys are among those where complete enumeration is the usual procedure.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle and hog surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error. This survey method is currently used for agricultural employment and wage rate surveys.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields. Currently, this method is used for forecasting papaya yield four months in advance of harvest. Research is underway to determine the feasibility of using this methodology on other crops.

CHECK DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, public tax records, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market News Service, are an important check data source. Also, grower organizations, such as the Hawaiian Sugar Planters' Association, provide an efficient means of obtaining information concerning sugar production.

REPORTS ISSUED

Report	Frequency
CROP RELEASES	
Bananas - Acreage, Production & Price	Monthly
Coffee	Semi-annually
Fresh Fruit	Annually
Processed Fruit	Annually
Ginger Root	Annually
Guavas	Annually
Macadamia Nuts	Semi-annually
Papayas - Acreage, Production & Price	Monthly
Sugar - Acreage & Production	Semi-annually
Taro	Annually
Vegetables - Acreage, Production & Price	Monthly
Vegetables	Annually
Vegetables Processed - Quantity & Price	Annually
FLOWERS AND NURSERY PRODUCTS	
Anthuriums - Exports	Monthly
Dendrobium Orchids	Annually
Flowers and Nursery Products	Annually
Out-of-State Sales	Annually
Poinsettias	Semi-annually
Protea - Plant Inventory	Periodically
LIVESTOCK RELEASES	
Cattle - Jan. 1, Inventory & Calf Crop	Annually
Cattle - Slaughter and Pasture Condition	Monthly
Chickens & Eggs	Monthly
Hogs - Dec. 1, Inventory & Pig Crop	Annually
Hogs - Slaughter	Monthly
Honey	Annually
Milk - Production, Cow Numbers & Prices	Monthly
WEEKLY CROP WEATHER	Weekly
OTHER PUBLICATIONS	
Agricultural Labor & Wage Rates	Annually
Prices Paid - Feed	Monthly
STATISTICS OF HAWAIIAN AGRICULTURE	Annually

The above reports may be obtained by contacting the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, HI 96822 (Office - 1428 S. King St., Honolulu, HI).

EXPLANATION OF GRAPHS AND TABLES ON PAGES 77 AND 83

BEEF-VEAL SUPPLY: Historical beef-veal supply data consists of all Hawaii production, carcass weight basis, foreign imports, converted to carcass weight equivalent and mainland inshipments, weight-as-shipped. Foreign and mainland inshipments of processed beef are excluded. Also, no adjustment is made for changes in inventory. Estimated supplies are derived as a function of U. S. per capita consumption of beef and veal, and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1970 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable with which the supply equation was estimated. The resulting equation indicated Hawaii beef supply with a correlation coefficient of .98.

PORK SUPPLY: All historical and estimated pork supply data involved dressed weight of pork with the exception of mainland inshipments which, at times, includes live hogs shipped into Hawaii for slaughter. Foreign and mainland inshipments of processed pork are excluded. Estimated supplies are derived as a function of U. S. per capita consumption of pork and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable in estimating a market supply equation. The resulting equation indicated Hawaii pork supply with a correlation coefficient of .90.

CHICKEN-BROILER SUPPLY: All historical chicken-broiler poundage data, as well as estimated supplies, are expressed on a ready-to-cook basis. Estimated supplies are derived as a function of U. S. per capita consumption and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on U. S. mainland inshipments and Hawaii production was totaled to serve as the dependent variable in estimating the supply equation. The resulting equation indicated Hawaii chicken-broiler supply with a correlation coefficient of .99.

Revisions to prior years are made when final figures on population and per capita consumption are available.

Cover photo: James Song farm, Windward, Oahu. J. Garrett.

General summary: Vegetable growing area of Waimea on the Island of Hawaii, page 2.

Crop summary: Taro fields at Waikane on the Island of Oahu, page 12.

Papayas: Amfac Tropical Products provided photos of their growing, fresh packing, and processing operations at Keaau on the Island of Hawaii, pages 34, 35.

Livestock summary: Meadow Gold Dairies replacement heifers at Haleiwa, Oahu, page 69.